Cambridge International Schools (Sudan)
Associate School of
University of Cambridge (UK)

Cambridge Primary Checkpoint

Mathematics

Past Papers:

2007-2016

Specimen

2012-2014-2017

With CD

Cambridge Primary Checkpoint

This book is designed to be suitable for self-study and for use in the classroom .You may use it for self-study , distance learning or preparation course to sit for the final exam of Primary Check Point.

Content:

Primary Check Point Past Papers and Specimen Paper from 2006 – 2017.

9 501101 530003

UNIVERSITY of CAMBRIDGE
International Examinations

Cambridge International School

Check Point Exams

2007

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

4969697844

MATHEMATICS **0842/01**

Paper 1 **May/June 2007**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen Protractor
Pencil
Ruler

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.

You should show all your working in the booklet.

For Examiner's Use	
Pages	**Mark**
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12	
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14	
15	
16	
Total	

This document consists of **16** printed pages.

UNIVERSITY of CAMBRIDGE International Examinations

1 Write this number in words.

1013

..... [1]

2 Here is a number. **749**

Match the digits to their values.

7	4	9

units	hundreds	tens

[1]

3 Petra has 42 shells in her collection.

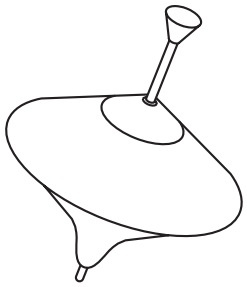
She gives half of them to her friend Claire.

How many shells does Claire get?

..... [1]

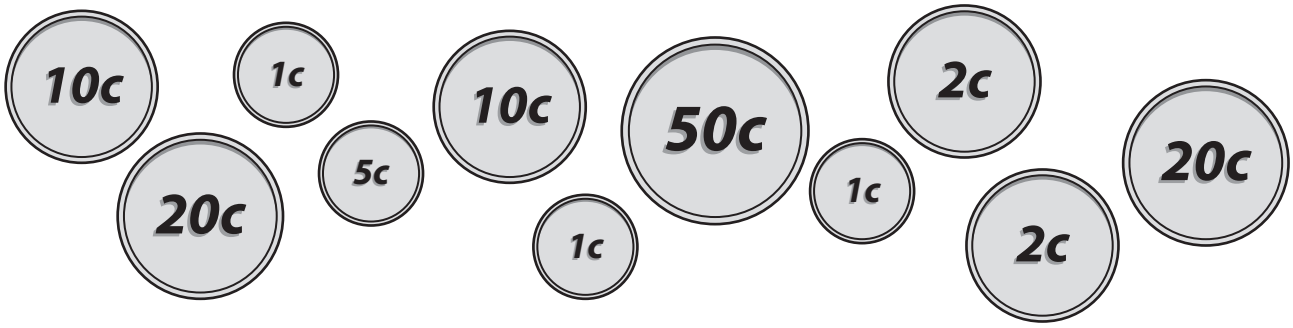
Page Total

4 Sourav buys a spinning top.



It costs 48 cents.

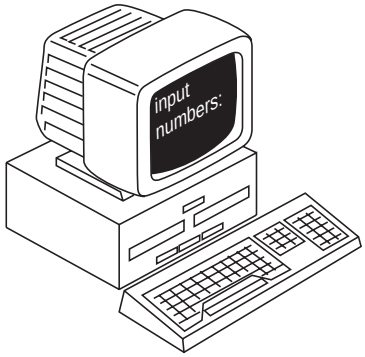
He has the coins shown.



Underline the coins he could use to pay for the top without needing change.

[1]

5 Jacob writes a computer program that multiplies numbers by 3 then adds 2.



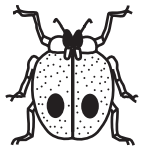
Jacob puts in 4.

What number comes out of the program?

..... [1]

Page Total

6 Maya counts beetles with different numbers of spots.



She finds these beetles:

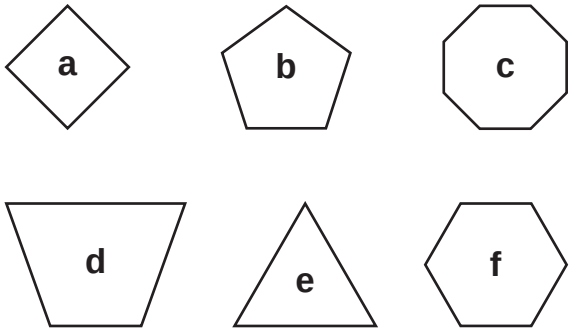
3 spots, 5 spots, 7 spots, 3 spots, 3 spots, 5 spots, 3 spots, 5 spots, 3 spots, 7 spots, 3 spots

She enters the results into a frequency table.
Complete her table.

Number of spots	Frequency
3 spots	
	3
7 spots	2

[2]

7 One of these shapes has 4 lines of symmetry.



Which shape is it?

..... [1]

Page Total

8 **(a)** Write the next **two** numbers in this sequence.

23 18 13 8 ....

[1]

(b) Write these numbers in order, starting with the largest.

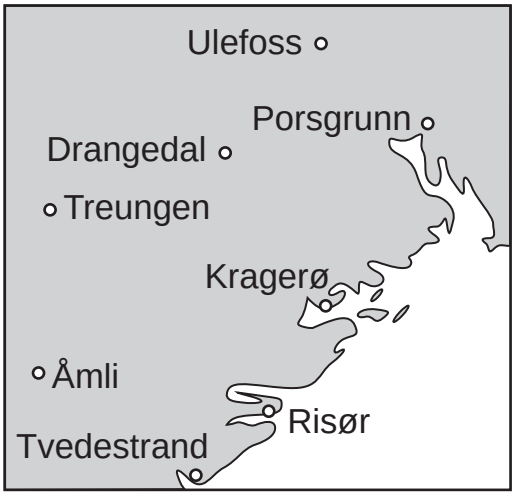
5.01 51 501 5.1 0.51

....

largest smallest

[1]

9 Here is a map of part of Norway.

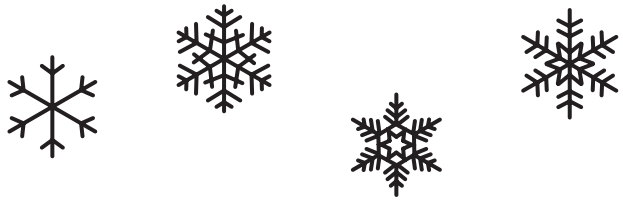


Starting from Åmli, in which direction is Treungen?

..... [1]

Page Total

10 Sven watches snow falling.



The snow starts falling at 10.45 am and stops falling at 12.15 pm.

How long does the snowfall last?

..... [1]

11 What number is 8 tens less than 9842?

..... [1]

12 Complete these **two** calculations.

(a)

8 4 3
3 9 7 –

[1]

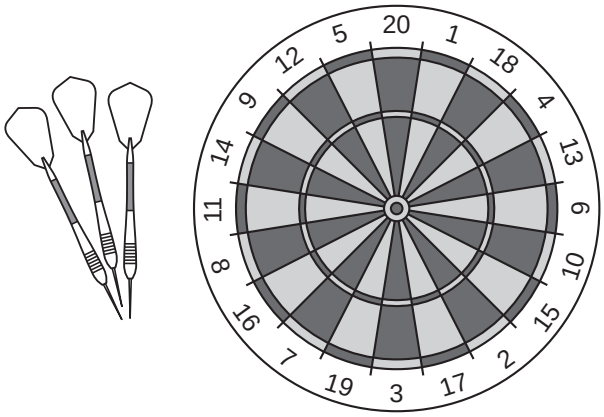
(b)

5 0 3
2 9 7
4 1 2 +

[1]

Page Total

13 Ranji pays a game of darts.



Three darts are thrown at the board.
The scores for each dart are added together and the total is **subtracted** from the player's total score.
Each player starts at 501 and the winner is the first to reach zero.

In Ranjit's first go, he scores 19, double 7 and triple 3 with his three darts.

What is his new total score?

Show your working.

Starting score = 501

New total score = ... [2]

Page Total

14 Aamir says “a triangle can never have two right angles.”

(a) Is he correct?

Yes ☐ No ☐

[1]

(b) Explain your answer.

.....

.....

.....

..... [1]

15 Mylene collects some data about the colour of babies’ eyes.
She enters her data in a tally chart.

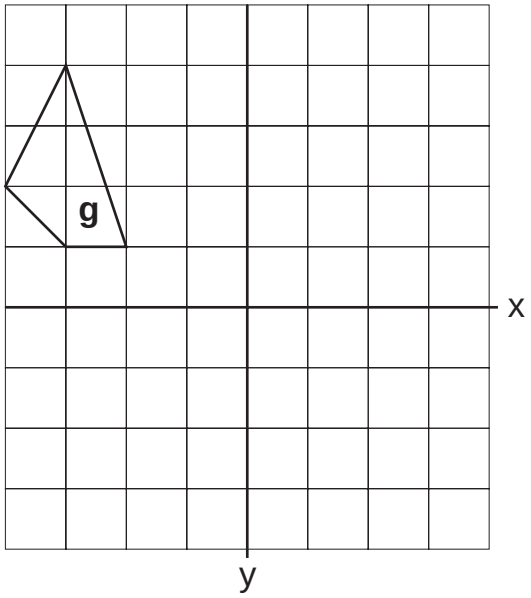
Eye colour	Number
blue	𝍸 𝍸 |
green	|||
brown	𝍸 ||||
hazel	𝍸 |
grey	||

How many more babies have hazel eyes than green eyes?

..... [1]

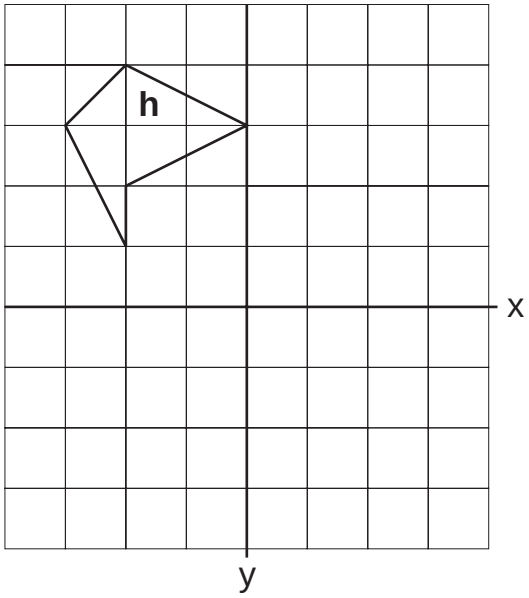
Page Total

16 (a) Reflect shape **g** in the mirror line labelled x.
Label the new shape **G**.



[1]

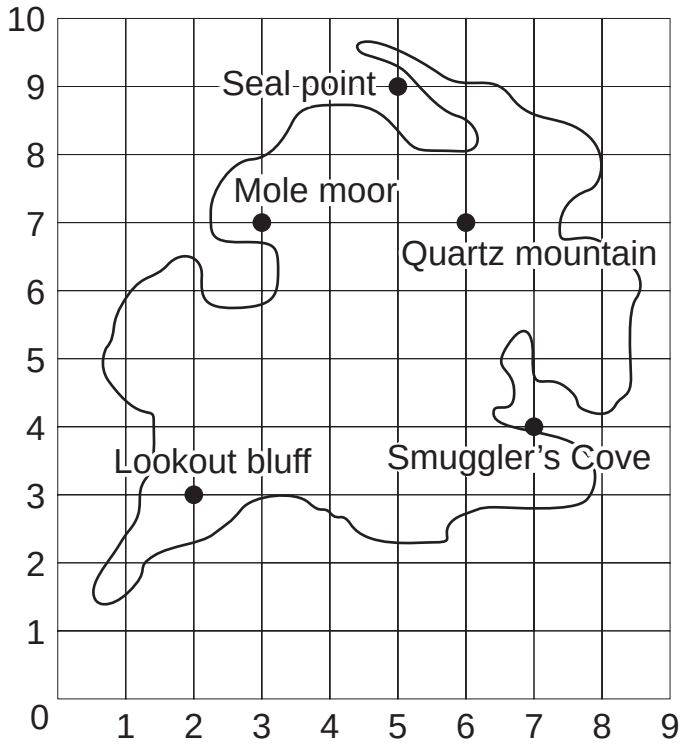
(b) Reflect shape **h** in the mirror line labelled y.
Label this new shape **H**.



[1]

Page Total

17 Here is a map.

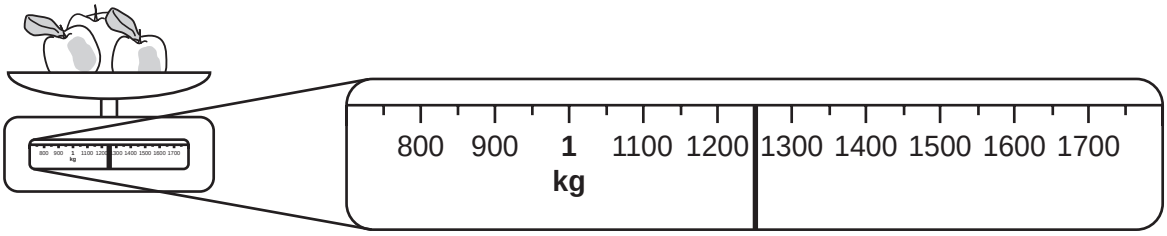


Give the co-ordinates of Smuggler's Cove.

(....., ...) [1]

Page Total

18 Kara weighs 3 apples on her scales.



How much do the apples weigh?

..... g [1]

19 (a) Here is a fraction.

$$\frac{13}{4}$$

Write this fraction as a mixed number.

..... [1]

(b) Here are some more fractions.

$$\frac{3}{4} \quad \frac{4}{10} \quad \frac{2}{6} \quad \frac{8}{12} \quad \frac{3}{9}$$

Underline **two** fractions that are equivalent.

[1]

20 548 boxes each contain 72 packets of breakfast cereal.

How many packets of cereal are there altogether?

..... [1]

Page Total

21 Alisha writes the following calculation in her book.

$$13 \times 3 + 6 \times 2 = 90$$

She forgets to put in the brackets.

Put in the brackets so that the calculation is correct.

[1]

22 Explain the formula $y = 3x + 2$ in your own words.

.....

.....

.....

..... [1]

Page Total

23 (a) Match these events to show how likely they are to occur.

1 is the **most** likely.
4 is the **least** likely.

New Zealand disappears into the sea in 2007.	1 most likely
A dice lands on a number larger than 2.	2
There is a thunderstorm somewhere in the world next year.	3
A dice lands on an even number.	4 least likely

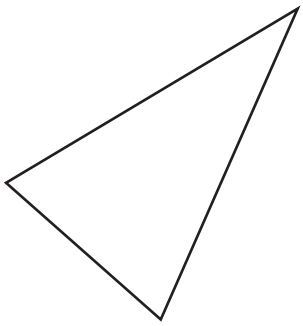
[1]

(b) What is the chance of a tossed coin landing on heads?

..... [1]

Page Total

24 Here is a triangle.



Describe this triangle so that a friend could guess what type of triangle it is.

.....

.....

..... [1]

25 Draw a straight line from point A.

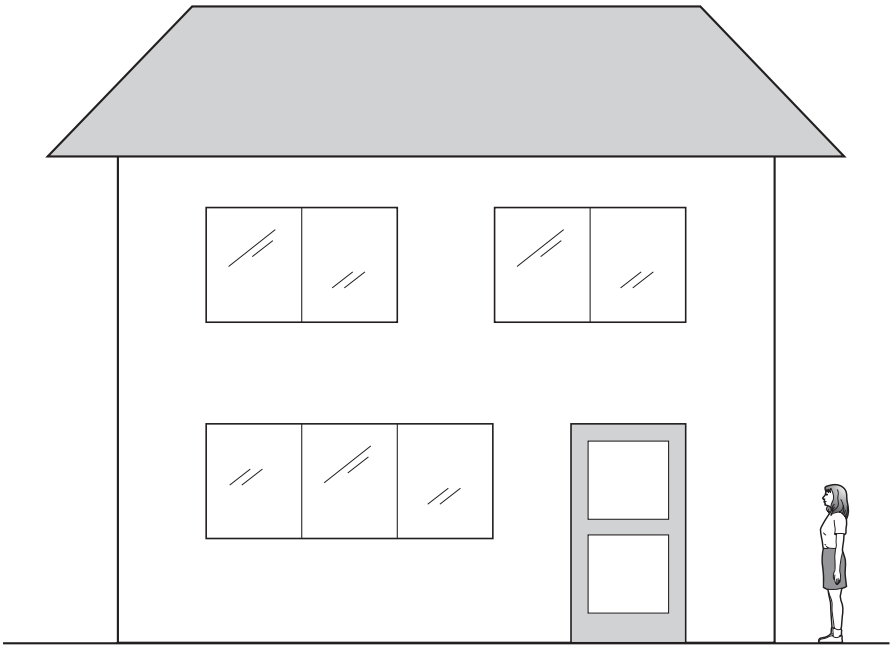
It must be 136° from line AB.

A B

[1]

Page Total

26 Laura estimates the height of her house.



Circle the estimate that is the most accurate.

A 2.4 m

B 4.5 m

C 6.4 m

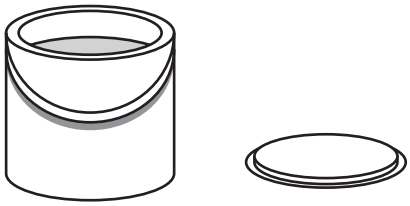
D 12.2 m

E 16.8 m

[1]

Page Total

27 Rezza makes orange paint by mixing red and yellow.



He uses red to yellow in the ratio 3 : 7

Rezza needs 5 litres of orange paint.

(a) How much red paint does he need?

..... litres [1]

(b) How much yellow paint does he need?

..... litres [1]

28 What is $\frac{2}{3}$ of 216?

..... [1]

29 Mrs Tai sent a gift of $75 to each of 26 hospitals.

How much money did she give in total?

$ ..... [1]

30 At 11.30 am the temperature in Rio was 27 °C.

At 3.30 pm it had risen by exactly 10%.

What was the temperature at 3.30 pm?

..... °C [1]

Page Total

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

8433934788

MATHEMATICS **0842/02**

Paper 2 **May/June 2007**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

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For Examiner's Use	
Pages	**Mark**
1	
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16	
Total	

This document consists of **16** printed pages.

1 Put these numbers in order, from lowest to highest.

2508 1757 2575 2187 2018

_____ _____ _____ _____ _____

lowest highest

[1]

2 Round 950 to the nearest 100.

..... [1]

3 **(a)** Shahid is given money by his family.

He gets $1.50 from his father, $1.50 from his mother and $0.75 from his sister.

How much money does he get altogether?

$ ..... [1]

(b) Feroz buys a CD for $8.95. He pays with a $10 note.

How much change does he get?

$ ..... [1]

Page Total

4 Marek needs 20 m of rope to make a rope ladder.

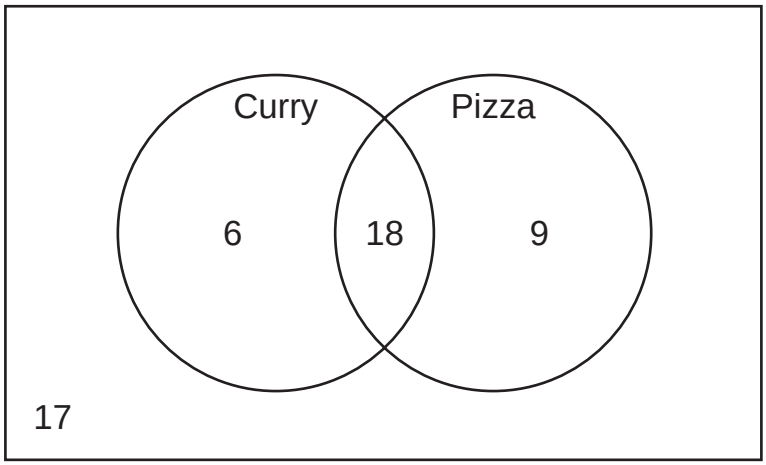
The rope costs $2.75 per metre.

How much will 20 metres of rope cost?

$ ..... [1]

5 Ashok did a survey on favourite food.

His results are shown in this Venn diagram.

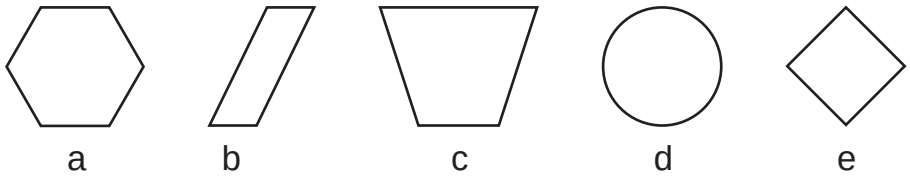


How many children chose Curry as their favourite food?

..... [1]

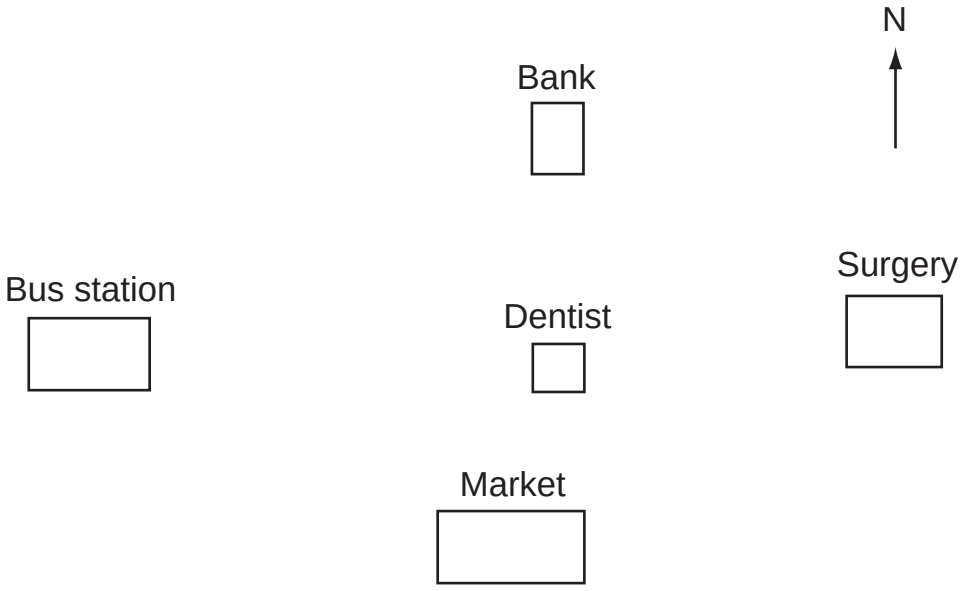
Page Total

6 Which of these shapes has only one line of symmetry?



..... [1]

7 Lilia walks from the dentist to the bus station.



In which direction does she walk?

..... [1]

Page Total

8 Farah and her mother go shopping.

Farah's mother says, "It's half past nine. I'll meet you here at eleven forty-five."

How much time did Farah have to shop?

..... [1]

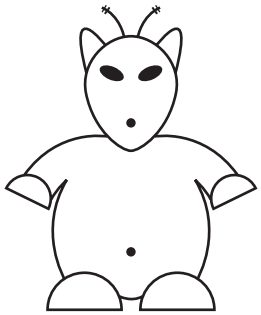
9 What is the value of the **7** in **21.87**?

Underline the correct answer.

Tenths Units Hundredths Tens

[1]

10 Syed packs 175 toy aliens into boxes.



He has 9 boxes.

He packs the same number of aliens into each box.

(a) How many aliens are in each box?

..... [1]

(b) How many are left over?

..... [1]

Page Total

11 Manjula buys new furniture for her bedroom.

Manjula's furniture	
Bed	$149.50
Mattress	$85.49
Shelves	$34.99
Desk	$55
Chair	$49.99

(a) How much does she pay altogether?

$ ..... [1]

(b) The shop offers her a 10% discount on the total cost.

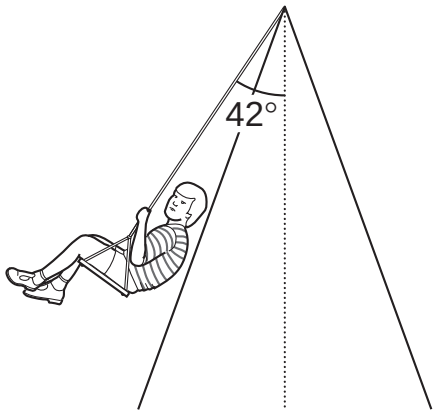
How much money does she save, rounded to the nearest cent?

$ ..... [1]

Page Total

12 Kyere is on his swing.

The angle increases by 3º every time the seat swings.



The seat is now at an angle of 42º from vertical.

(a) How many times has the seat swung?

..... [1]

Kyere stops going higher after 13 more swings.

(b) What angle is the swing at now?

.....° [1]

Page Total

13 Oscar asks some friends about music and film.

He puts his results in a Carroll diagram.

Favourite Types	Rock music	Disco music
Comedy films	7	12
Action films	6	3

(a) How many children like rock music?

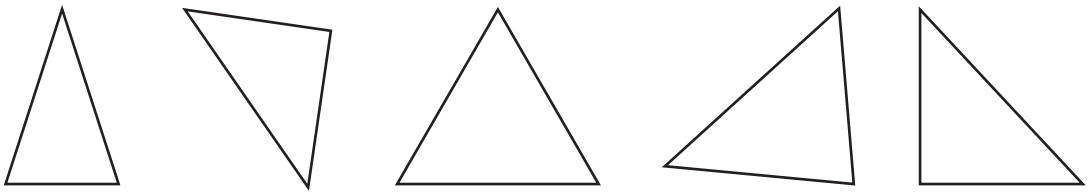
..... [1]

(b) How many more children prefer comedy films to action films?

..... [1]

14 Which of these triangles is equilateral?

Underline your answer.

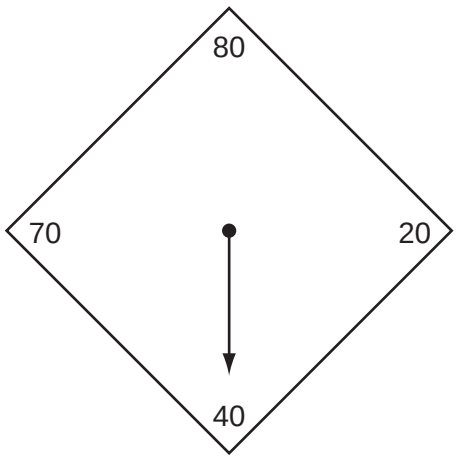


a b c d e

[1]

Page Total

15 Hini spins a spinner.
It points to 40.

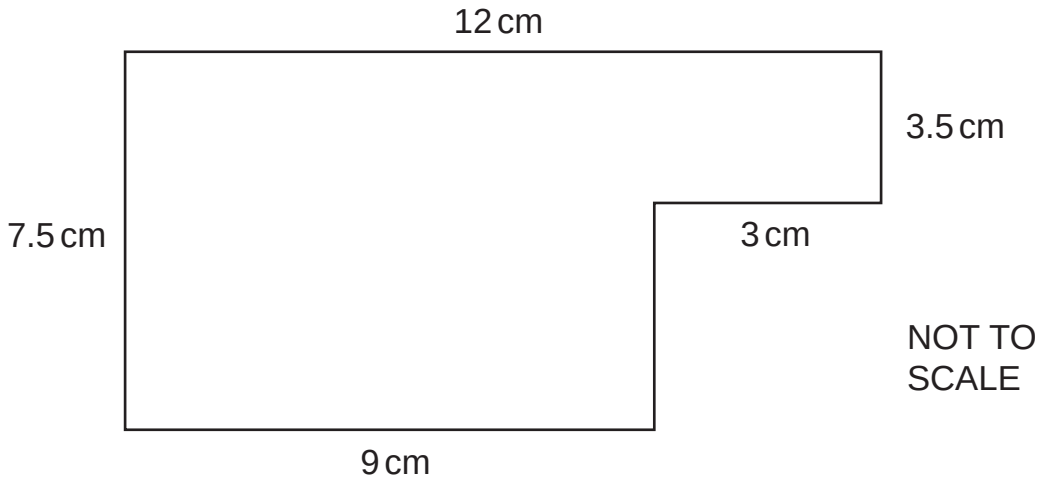


Where will it point after it turns anticlockwise one right angle?

..... [1]

Page Total

16 (a) Look at this shape.



What is the perimeter of the shape?

..... cm [1]

(b) What is the area of the shape?
Give your answer with the correct units.

..... [2]

17 Put these fractions in order from the largest to the smallest.

$\frac{2}{5}$ $\frac{4}{5}$ $\frac{2}{10}$ $1\frac{3}{5}$ $\frac{5}{10}$

largest				smallest

[1]

Page Total

18 Complete this table.

Fraction	Decimal
$\frac{1}{5}$	
	0.40
$\frac{4}{5}$	0.80

[2]

19 Use your calculator to do this calculation.

$(46 \times 98) + (32 \times 61) =$ ☐

[1]

20 **(a)** Finish this number sequence.

2 3 5 8 13 21 _____

[1]

(b) Explain how you worked out the answer.

.....

..... [1]

Page Total ☐

21 Aneesa can pick 7 boxes of strawberries in 30 minutes.
Joshua can pick 5 boxes of strawberries in 30 minutes.

They both pick strawberries for 2 hours.

How many more boxes has Aneesa picked than Joshua?

..... boxes [1]

22 Kerry plays golf for seven days.

Here are her scores:

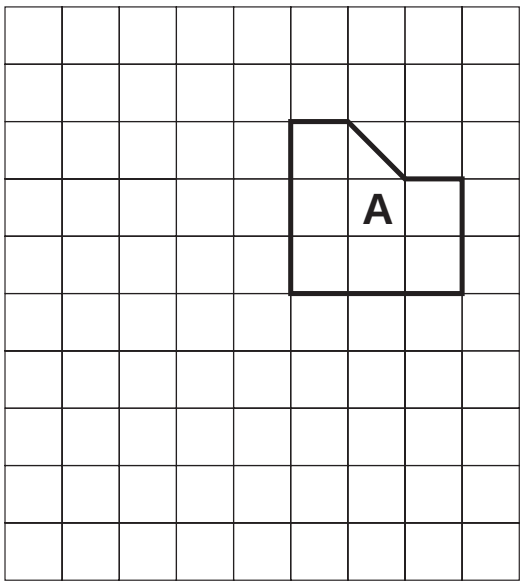
79
81
76
73
80
77
80

What is Kerry's mean score?

..... [1]

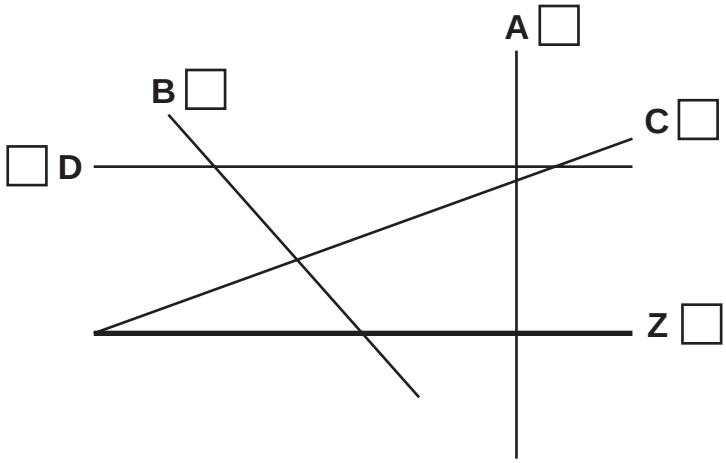
Page Total

23 Draw shape A after a translation of (-4, -4).
(4 squares to the left and 4 squares down)



[1]

24 Put a tick (✓) by the line that is perpendicular to **Z**.

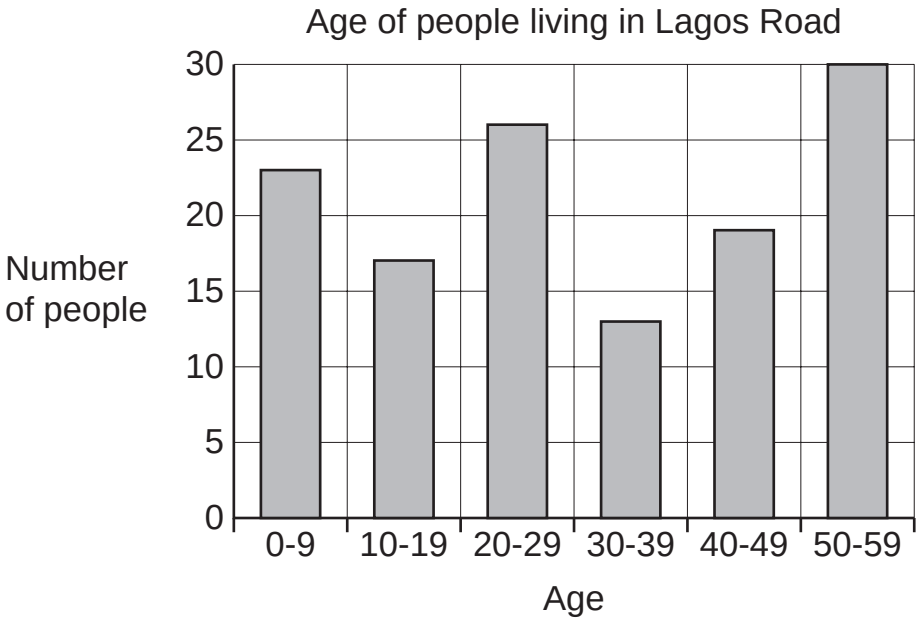


[1]

Page Total

25 Byama does a survey of people's ages.

The results are shown on this graph.



(a) How many people are under 10 years old?

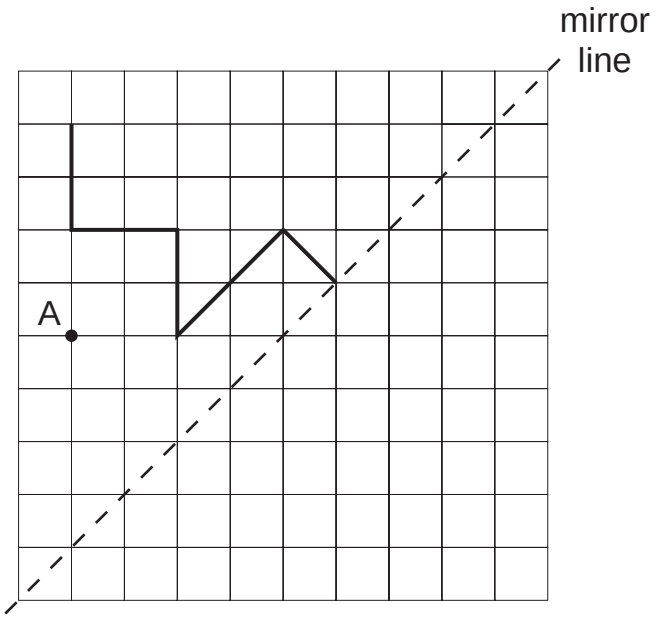
..... [1]

(b) How many people are between 30 and 50 years old?

..... [1]

Page Total

26 Look at the pattern on the grid below.



(a) Complete the line pattern to make it symmetrical, using the mirror line.

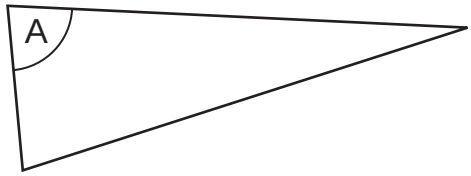
[1]

(b) Reflect point A in the mirror line.

[1]

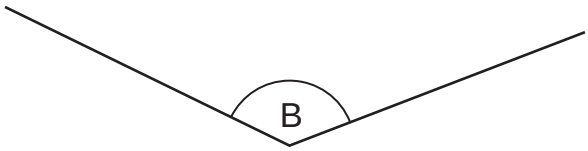
Page Total

27 (a) Measure angle A.



..... ° [1]

(b) Measure angle B.



..... ° [1]

Page Total

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

4123622330

MATHEMATICS **0842/03**

Paper 3: Student Answer Sheet **May/June 2007**

approx. 15 minutes

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
One mark will be awarded for each question answered correctly.

This document consists of **2** printed pages.

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Write your answers here.

1.			
2.	**46**		
3.	**28**	**sweets**	
4.			
5.			
6.	**94**		
7.	**5, 2**		
8.			
9.			
10.	**90**		

Write your answers here.

11.	**214**		
12.	**126**		
13.	**27, 35**	**horses**	
14.	**28**		
15.	**358**	**$**	
16.	**53**	**people**	
17.	**715**	**pigs**	
18.	**1.25**	**$**	
19.	**2437**	**kg**	
20.		**days**	

Page Total

UNIVERSITY of CAMBRIDGE
International Examinations

Cambridge International School

Check Point Exams

2008

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

1477355679

MATHEMATICS **0842/01**

Paper 1 **May/June 2008**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen Protractor
Pencil
Ruler

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
Page	**Mark**
1	
2	
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4	
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7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
Total	

This document consists of **18** printed pages and **2** blank pages.

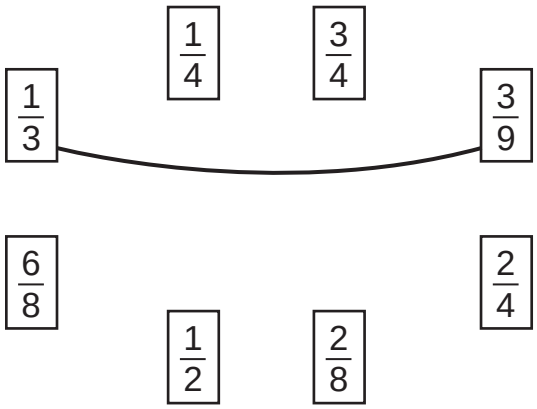
1 Here are some numbers.
Put a circle around any number that is a multiple of 2 or 5 or 10.

25
36
51
75
54
68
17
91
90
83
32
49

[2]

2 Below are some fractions.

Draw lines to join the fractions that are equivalent.
One has been done for you.



[1]

Page Total

3 Petrea has 43 cherries.

She shares them out between four friends.

How many cherries does each friend get?

You may get a mark for your working out.

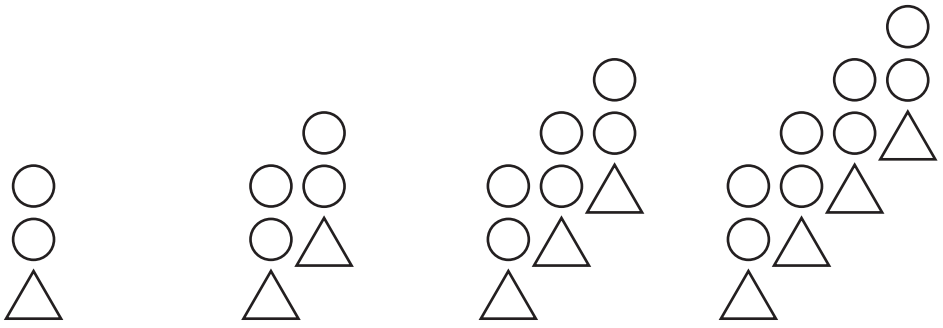
..... [2]

4 Monty says "I have $1.00. If I buy fruit that costs 72c, I will get 18c change."

Is Monty right or wrong?
Explain your answer. You may include working out.

[1]

5 Here is a sequence of circle and triangle patterns.



(a) How many circles would be in the next pattern?

..... circles [1]

(b) If there were 12 circles, how many triangles would there be?

..... triangles [1]

Page Total

6 Mrs Gupta asks her class if they like playing badminton and/or cricket.
Here are the results.

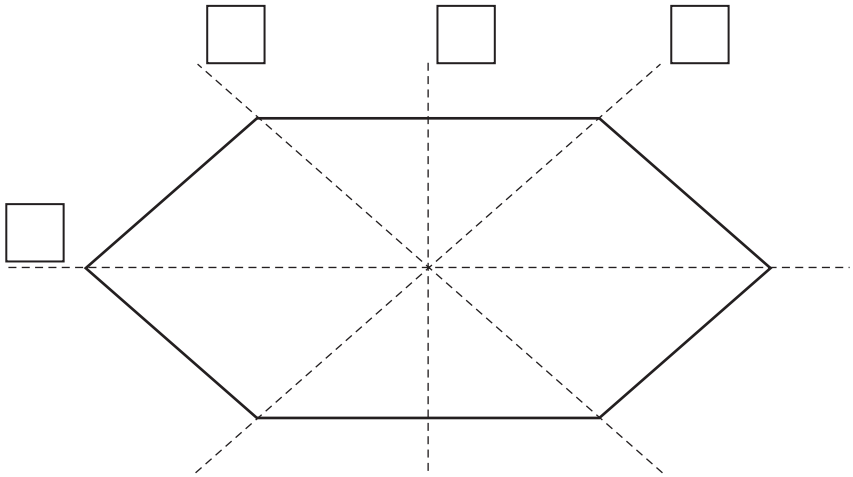
	likes playing cricket	likes playing badminton
boy	|||||||||||	|||
girl	|||||||	|||||||||

How many girls like playing cricket and badminton in total?

..... [1]

7 Here is a 2D shape.

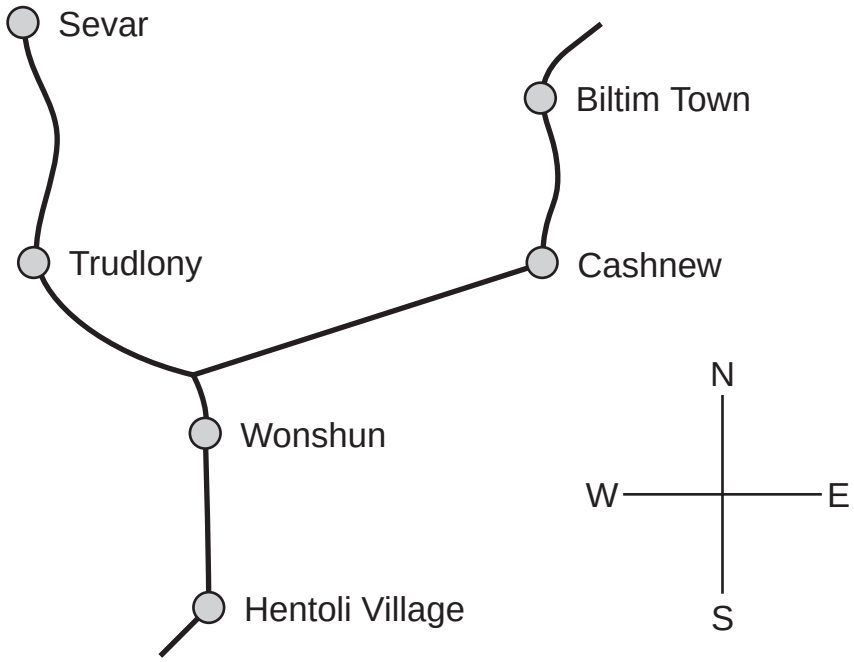
Tick every box that is next to a line of symmetry.



[1]

Page Total

8 Here is a map of part of a country.



What direction would you travel if you walk in a straight line from Cashnew to Trudlony?

..... [1]

9 Shahid counts for 150 seconds.

Write this time in minutes.

..... minutes [1]

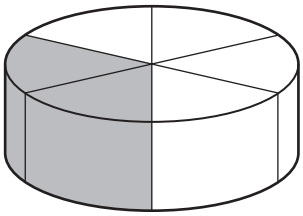
Page Total

10 Write the next **two** numbers in the sequence below.

17	11	5	-1		

[1]

11 (a) This drawing shows a cheese divided into equal pieces.



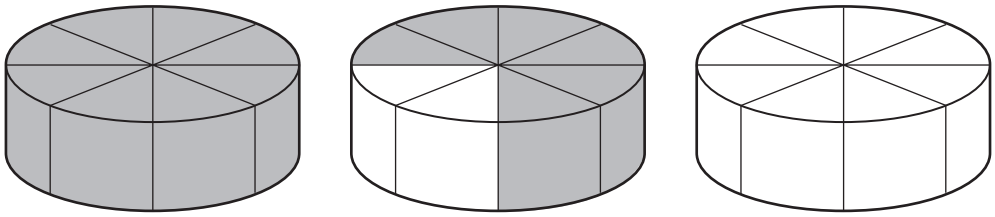
What fraction of the cheese is shaded?

$$\frac{\square}{\square}$$

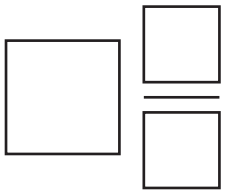
[1]

Page Total

(b) Here are drawings of three whole cheeses divided into equal slices.



What mixed number gives the amount of whole cheeses shaded?



[1]

12 A shopkeeper has 7 boxes in his shop.
Each box contains 8 tins of tomatoes.

(a) How many tins of tomatoes are there in total?

..... [1]

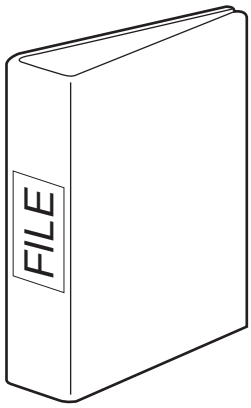
(b) The same shop also sells boxes of tissues.
There are 1200 sheets in each box.

How many sheets are there in 2 boxes?

..... [1]

Page Total

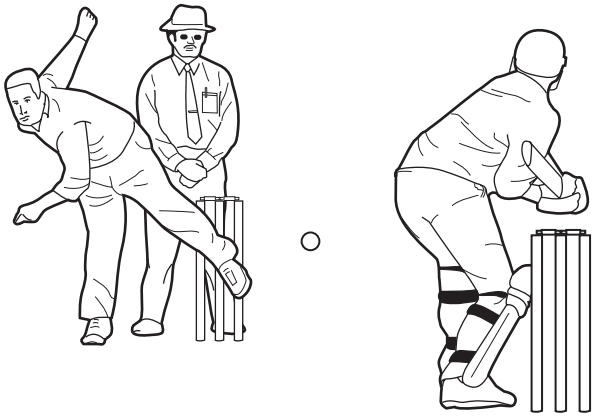
13 Eric's shelf is 75 cm long.
Files are exactly 6 cm wide.



How many files can he fit on his shelf?

.....files [1]

14 Kamran plays cricket.
In three innings, he scores a total of 125 runs.



(a) If he scores 15 runs in his 1st innings, and 74 runs in his 2nd innings, how many runs does he score in his 3rd innings?

.....runs [1]

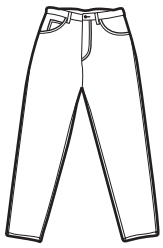
Page Total

(b) In Kamran's 4th innings, he scored 99 runs.

What is his total number of runs scored after 4 innings?

.....runs [1]

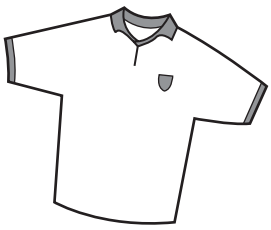
15 Here are some items for sale in a shop.



$23

$7.50

$12.50



$6.99

(a) What is the total cost of 5 T-shirts?

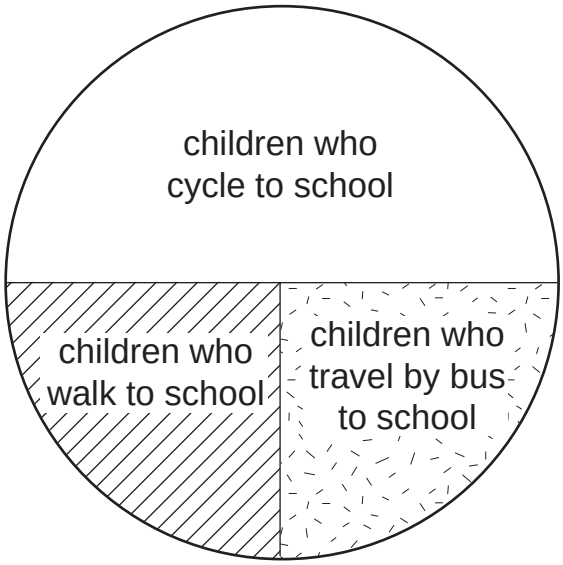
$ ..... [1]

(b) What change is there from $50 if you buy one pair of jeans and a hat?

$ ..... [1]

Page Total

16 100 children were asked how they travel to school.
The results are shown in this pie chart.



(a) How many children travel by bus to school?

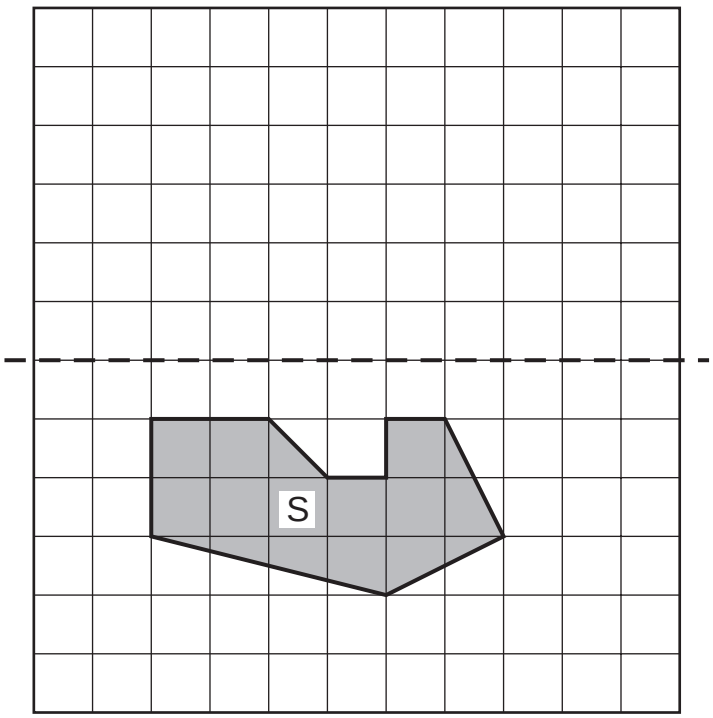
.....children [1]

(b) How many children do **not** cycle to school?

.....children [1]

Page Total

17 Draw the reflection of shape S in the mirror line.



[1]

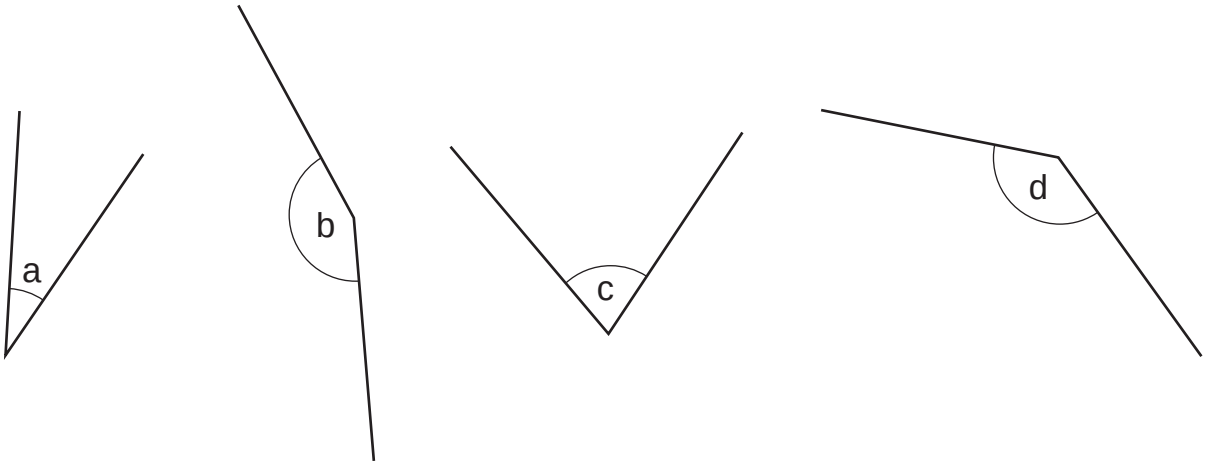
Page Total

18 Here is a shape.

(a) What is half of angle **a**?
Give your answer in degrees.

..... ° [1]

(b) Here are four angles. Put them in order from smallest to largest.



smallest ☐ ☐ ☐ ☐ largest

[1]

Page Total

19 Look at the bus timetable.

Bus stop	**198a bus times**	**198b bus times**
Limbo Drive	11.35	14.25
Vasco Street	11.58	-------
Heldo Street	12.17	15.01
Munro Place	12.33	15.17

(a) How long does it take to travel from Limbo Drive to Munro Place using the 198a bus?

.....minutes [1]

(b) How much quicker is the same journey using the 198b bus?

.....minutes [1]

20 (a) What is $\frac{1}{3}$ of 186?

..... [1]

(b) Yasmin has saved $185 in her savings account.
She withdraws $\frac{1}{5}$ of this money to spend.

How much money does she withdraw?

$ ..... [1]

Page Total

21 Josh, Gabriella and Tomas take part in a cross country run.
They use a pedometer to count the number of steps they each take.

Name	Steps
Josh	2978
Gabriella	3067
Tomas	3275

(a) How many steps did they take altogether?

Use this space for your working out.

..... [1]

(b) Ahmed takes only 2874 steps to complete the run.
Add Ahmed's total to your total for Josh, Gabriella and Tomas.

What is the total number of steps taken by the four children?

Use this space for your working out.

..... [1]

22 Here is a formula showing the relationship between **a** and **b**.

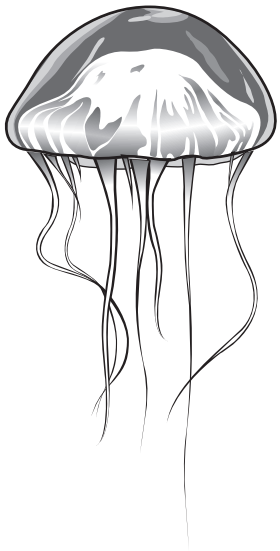
$$a = 5b$$

Describe this relationship in words.

[1]

Page Total

23 Julio collected data on the jellyfish numbers in the sea where he lives.



Month	Number of jellyfish
November	25
December	47
January	61
February	59
March	46

(a) What is the mean number of jellyfish?

..... [1]

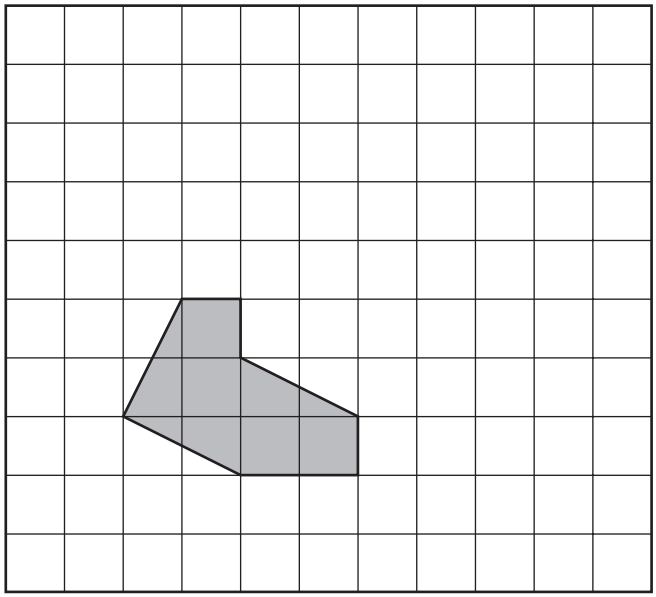
(b) What is the median number of jellyfish?

..... [1]

Page Total

24 This diagram shows a shape.

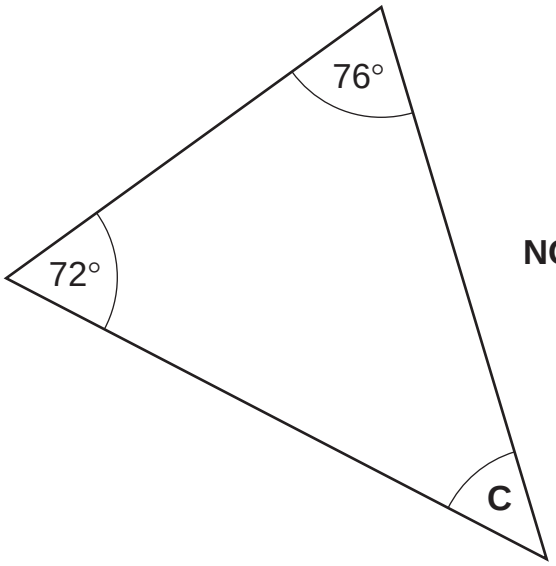
Draw the shape after a translation of 3 squares right and 5 squares up.



[1]

Page Total

25 Here is a diagram of a triangle.



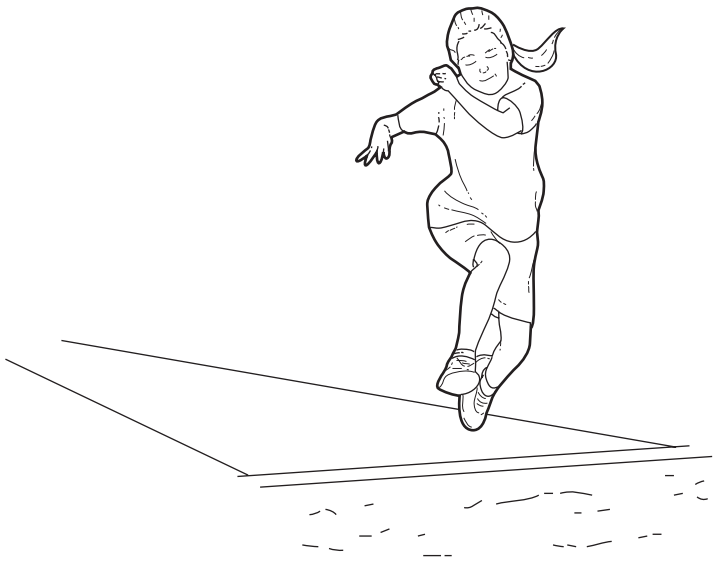
NOT TO SCALE

Calculate angle **C**.

.....° [1]

Page Total

26 Jamila does a long jump of 3.45 metres.



Give this distance in centimetres.

.....cm [1]

Page Total

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

4290129247

MATHEMATICS **0842/02**

Paper 2 **May/June 2008**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
Page	**Mark**
1	
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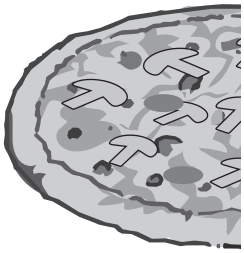
16	
17	
Total	

This document consists of **17** printed pages and **3** blank pages.

1 Here is half a pizza.



How many quarters are equal to a half?
Tick (✓) the correct image below.

[1]

2 Look at the two sets of fractions below.
Draw lines to match the fraction from Set A with its equivalent fraction from Set B.

Set A	Set B
$\frac{2}{3}$	$\frac{1}{3}$
$\frac{5}{25}$	$\frac{12}{15}$
$\frac{4}{5}$	$\frac{6}{9}$
$\frac{2}{6}$	$\frac{2}{10}$

[2]

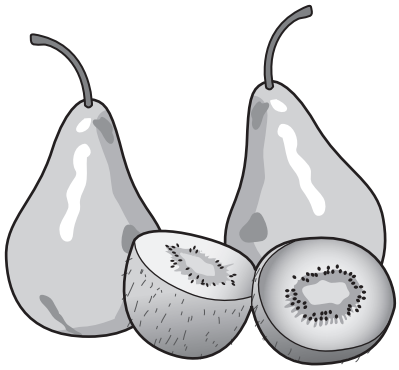
Page Total

3 Complete this calculation:

$$60 \div \square = 5$$

[1]

4 Ahmed buys two pears costing 16 cents each and a kiwi fruit costing 15 cents.



(a) How much does the fruit cost in total?

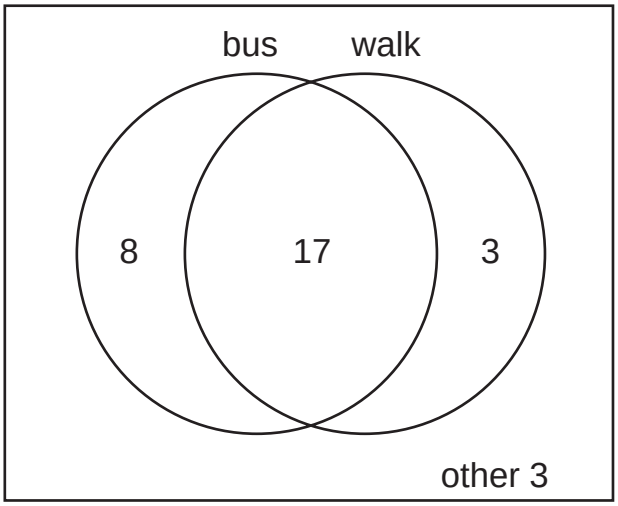
..... [1]

(b) How much change does he get from $2.00?

..... [1]

Page Total

5 Jason asked Class 5 how they travel to school.
The results are shown in this pie chart.



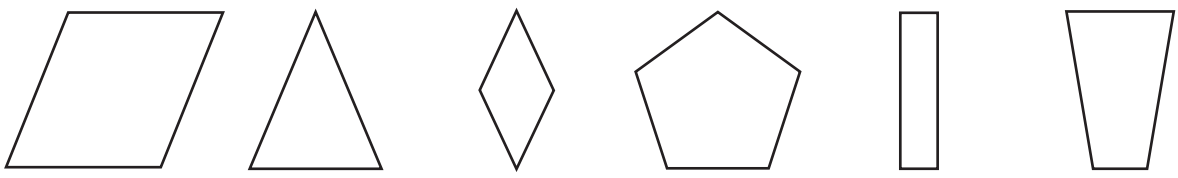
(a) How many children walk to school?

..... [1]

(b) How many children do **not** use the bus to travel to school?

..... [1]

6 Look at these 2D shapes.

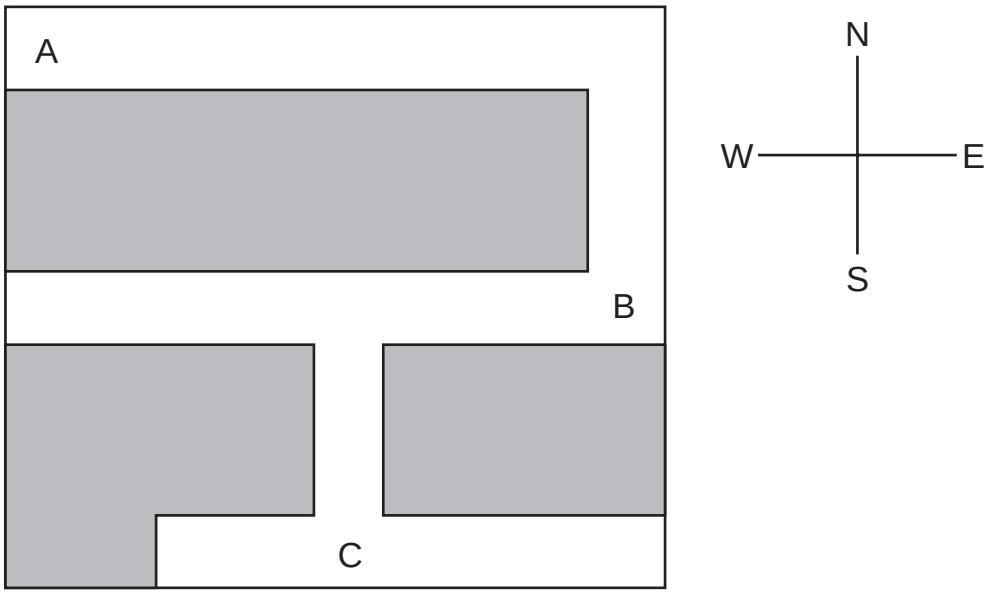


Tick (✓) any shapes that have four vertices.

[1]

Page Total

7 Here is the plan of some paths.
Give directions to go from A to B, then from B to C on this plan.



A to B ..... then .....

B to C ..... then ..... [1]

8 Lisa says:

"In **September** we return to school.
In **February** it sometimes snows.
In **November** it is my birthday.
In **April** we pick Spring flowers.
In **July** we visit the beach."

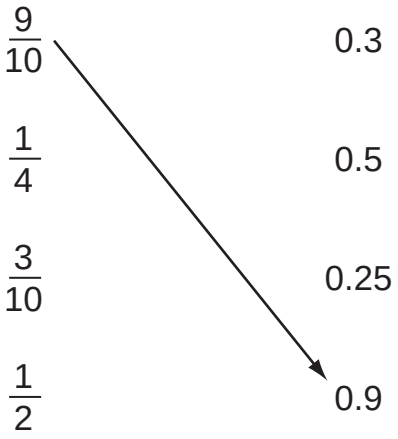
Arrange the months in the correct order. The last one has been done for you.

				November

[1]

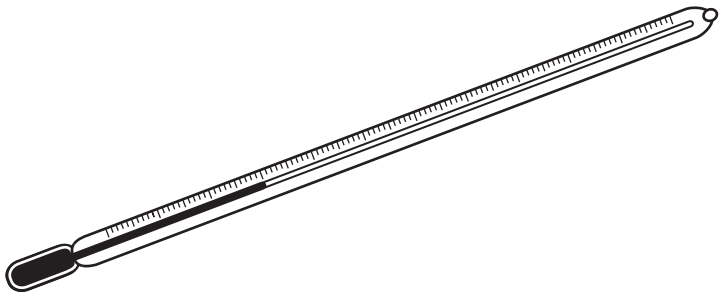
Page Total

9 Draw lines to match the decimals to the fractions.
One has been done for you.



[1]

10 In Russia, a scientist measures the temperature each hour.
The temperature changes by the same number of degrees each hour.



(a) What should the next measurement be?

6°C 3°C 0°C .....°C [1]

(b) A month later the temperature is measured each 15 minutes.
The temperature still changes the same amount each time.

What is the next measurement?

5°C 2°C -1°C ..... °C [1]

11 Complete the following calculations:

(a) 0.4 + 0.84 = ... [1]

(b) 0.25 + ... = 0.9 [1]

12 Lily is given a calculation to do:

2706 + 5893

(a) Give an estimate of the answer, using rounding.
You may get a mark if you show your working.

..... [1]

(b) Now calculate the correct answer.

..... [1]

Page Total

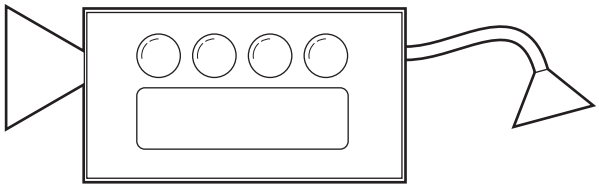
13 Usha's's parents pay her to have a set of 12 driving lessons.
Each lesson costs $22, but the teacher offers a 10% discount.

How much do the lessons cost?

Use this space to show your working.

$ ..... [2]

14 Here is a function machine:



When you put in a number, it multiplies it by 3, then subtracts 2.

(a) What number would come out if you put in the number 7?

..... [1]

(b) What number would you have put in to get the answer 7?

..... [1]

Page Total

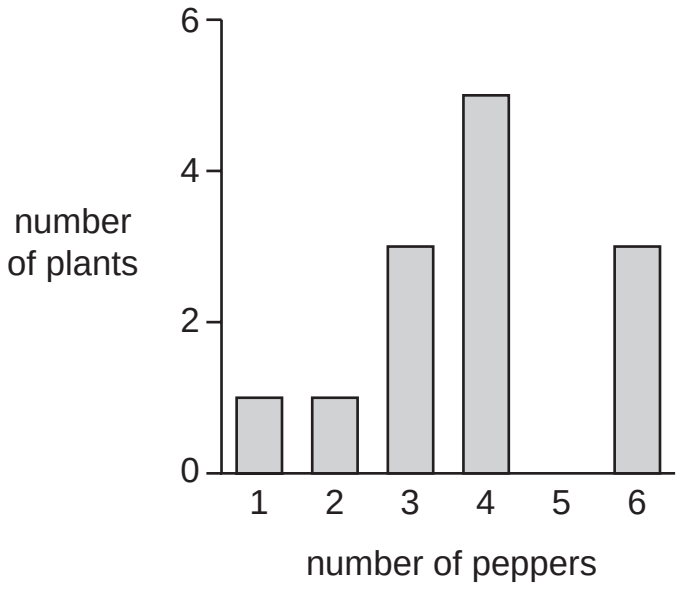
15 Sajid has 15 red pepper plants.
He measures the number of peppers on each plant.

The numbers are: 4, 6, 3, 1, 3, 4, 5, 4, 6, 4, 5, 3, 4, 6, 2

(a) What is the modal number of peppers?

..... [1]

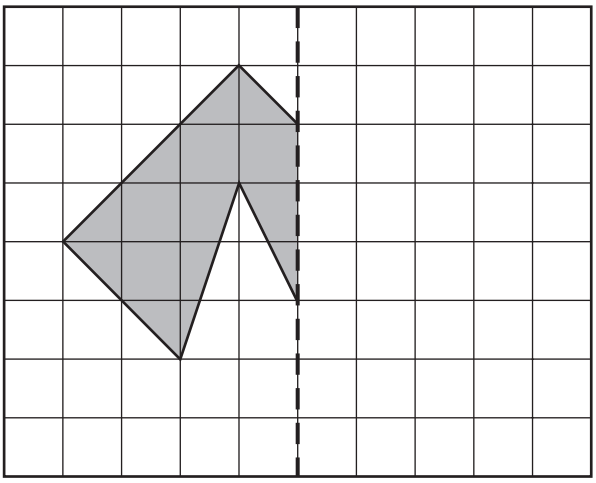
(b) Draw the missing bar in this graph of the results.



[1]

Page Total

16 Half of a symmetrical shape has been drawn below.
Draw the other half to complete the symmetrical shape.



[1]

17 Bjorg describes a shape:

"My shape is 3D. It has 6 faces. 2 faces are square; the other 4 faces are rectangular. The shape has 8 vertices and 12 edges."

(a) What shape is Bjorg describing?

..... [1]

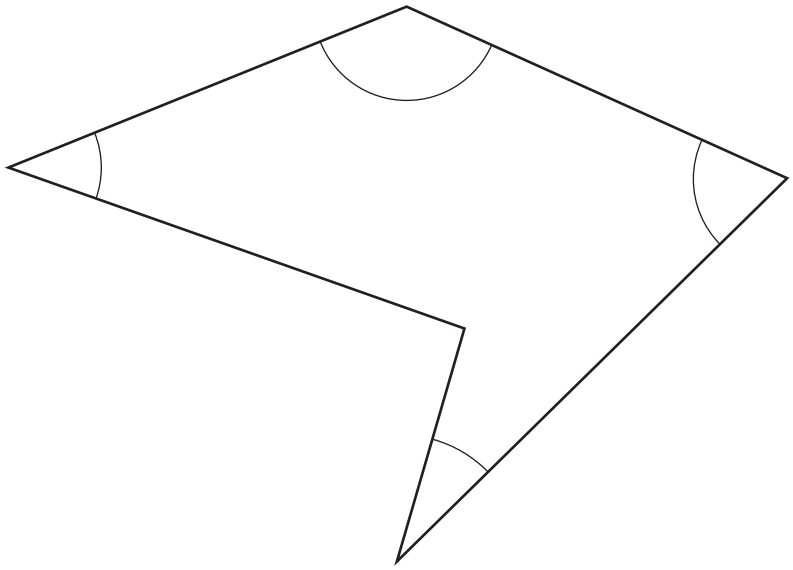
(b) Describe a regular hexagon to Bjorg.

.....

..... [1]

Page Total

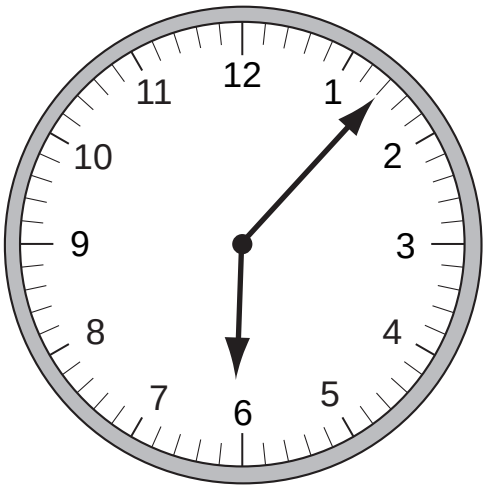
18 This shape has four angles shown.
Label the angles **a, b, c** and **d,** in order from smallest to largest.



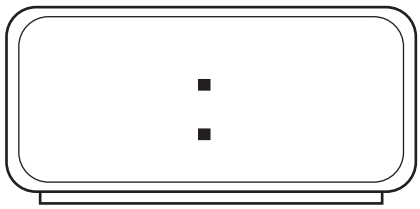
[1]

Page Total

19 (a) What time is shown on this analogue clock?



Give your answer in digital format.

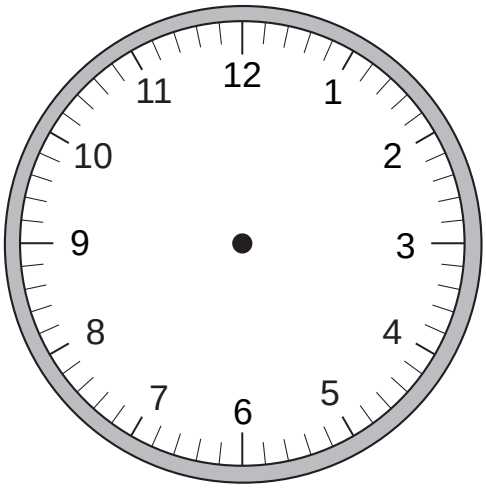


[1]

Page Total

(b) What time is shown on this digital clock?

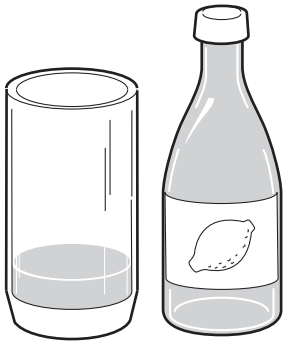
Show the time on this analogue clock face:



[1]

Page Total

20 Hong makes a drink of lemon.



He mixes the lemon and water in the ratio 2 : 9

If he uses 100 ml of lemon, how much water does he need?

.....ml [1]

21 Find the answer to this calculation:

(16 – 7) x 14 + 2.5 =

[1]

Page Total

22 William does a calculation:

```
      48 r1
7 ) 1597
    1400   20
     197
     140   20
      57
      56    8
       1
```

Check if he was right or wrong.
If you think he was wrong, explain his mistake and say what he should have done to get the correct answer.

..... [2]

23 There are 2 sandwiches (s) and 3 tomatoes (t) in a packed lunch (P).

Express this relationship in a formula using letters.

P = ... [1]

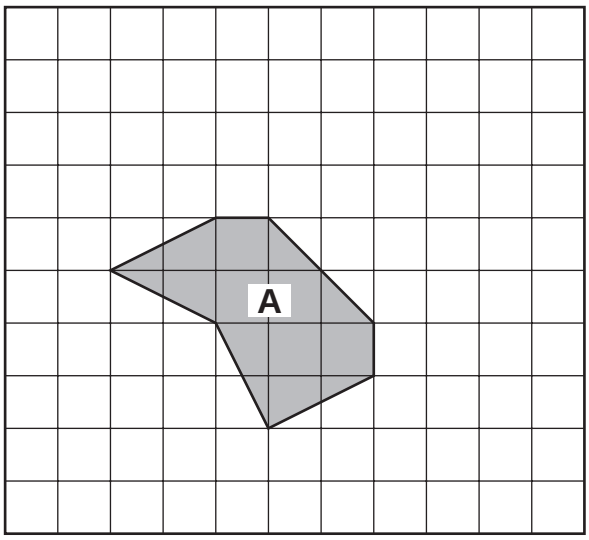
24 A coin is tossed 10 times. The results are: Heads 8: Tails 2

The coin is tossed again.
What is the probability of it landing on a head?

..... [1]

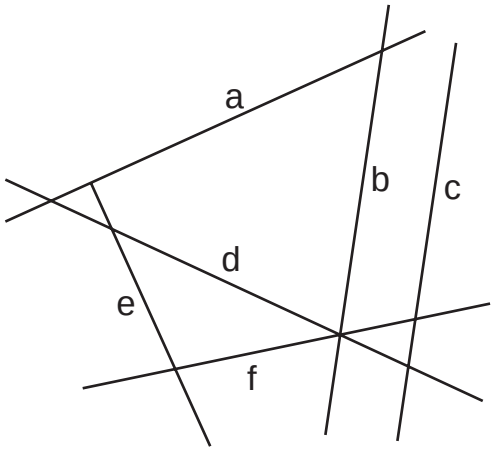
Page Total

25 Draw a translation of shape **A** by (2, 3).



[1]

26 The lines on this diagram are labelled.

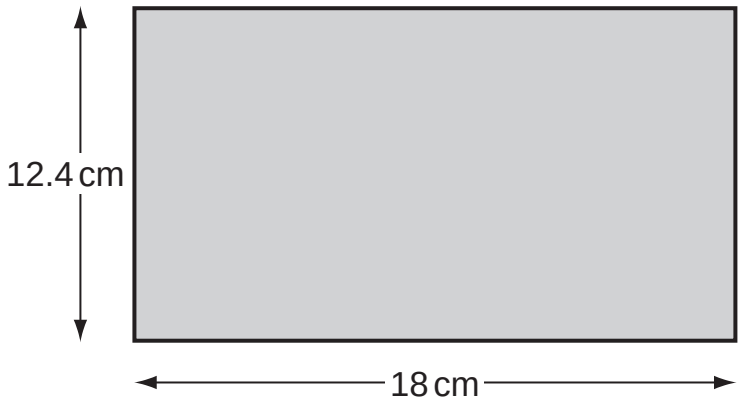


Which lines are perpendicular?

..... [1]

Page Total

27 Calculate the area of this rectangle:



NOT TO SCALE

Include the correct units with your answer.

..... [1]

Page Total

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

6828947721

MATHEMATICS **0842/03**

Paper 3: Student Answer Sheet **May/June 2008**

approx. 15 minutes

No Additional Materials are allowed.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
One mark will be awarded for each question answered correctly.

This document consists of **2** printed pages.

UNIVERSITY of CAMBRIDGE International Examinations

[Turn over

Write your answers here.

1.		
2.		
3.		
4.	**cherries**	
5.	**cards**	
6.		
7.		
8.		
9.		
10.	**pencils**	

Write your answers here.

11.		
12.		
13.		
14.		
15.	**pigs**	
16.		
17.	**kg**	
18.		
19.		
20.	**metres**	

Page Total

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

9584591662

MATHEMATICS **0842/01**

Paper 1 **October/November 2008**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
Page	**Mark**
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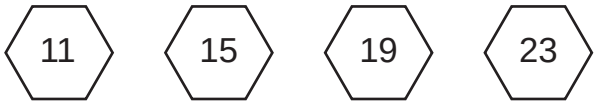
Total	

This document consists of **15** printed pages and **1** blank page.

1 Look at this number sequence.



Explain the rule for the sequence.

.....

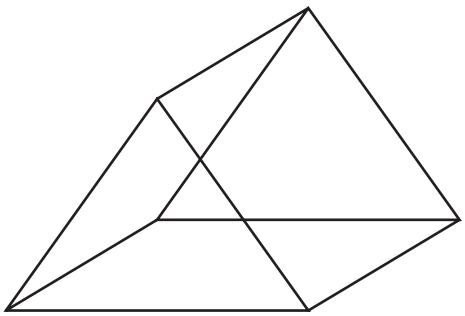
[1]

2 Write **two** numbers to make the calculation correct.

[1]

3 Look at the drawing of the triangular prism.

How many rectangular faces does it have?



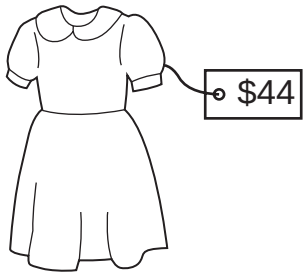
.....

[1]

Page Total

4 Aleesha has $100.

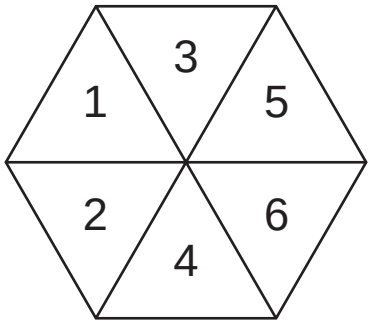
She buys a dress for $44.



How much money does she have left?

$ ..... [1]

5 Jon has a spinner with 6 numbers.
He records how many times the spinner lands on each number.



Number on the spinner	1	2	3	4	5	6
How many times	11	7	8	10	5	9

Which number did the spinner land on the least number of times?

..... [1]

Page Total

6 Look at this calculation.

3 x 27 = 81

(a) A man shares $81 equally between his 3 grandchildren.

How much money does each grandchild get?

$ ..... [1]

(b) A school spends $81 on seats for the playground.
Each seat costs $27.

How many seats does the school buy?

..... seats [1]

7 On November 4th, Melanie makes plans for a party.

M	T	W	T	F	S	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

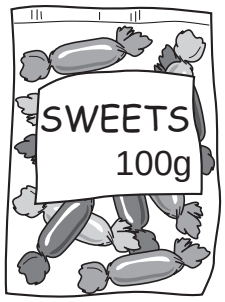
She wants the party to happen 17 days later.

On which **day** of the week will the party take place?

..... [1]

Page Total

8 Karin has 100 grams of sweets.



She gives $\frac{1}{4}$ of the sweets to her friend Kelly.

How many grams of sweets does Kelly get?

.....g [1]

9 Dalila is learning her 4 times table.
She has some wrong answers.

Write the correct answers for Dalila.

1 X 4 = 4

2 X 4 = 8

3 X 4 = 12

4 X 4 = 16

5 X 4 = 20

6 X 4 = 24

7 X 4 = 27

8 X 4 = 32

9 X 4 = 35

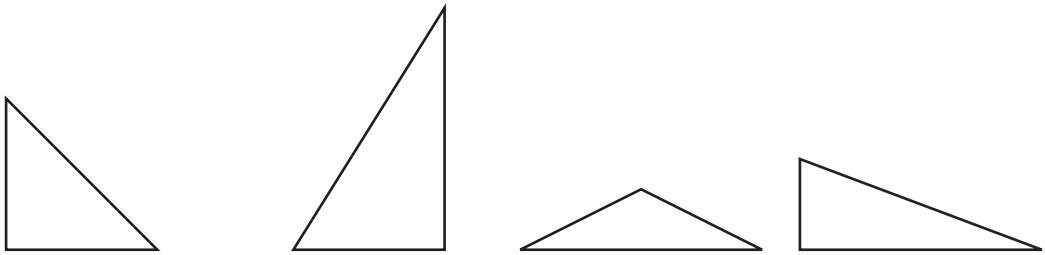
10 X 4 = 40

[1]

Page Total

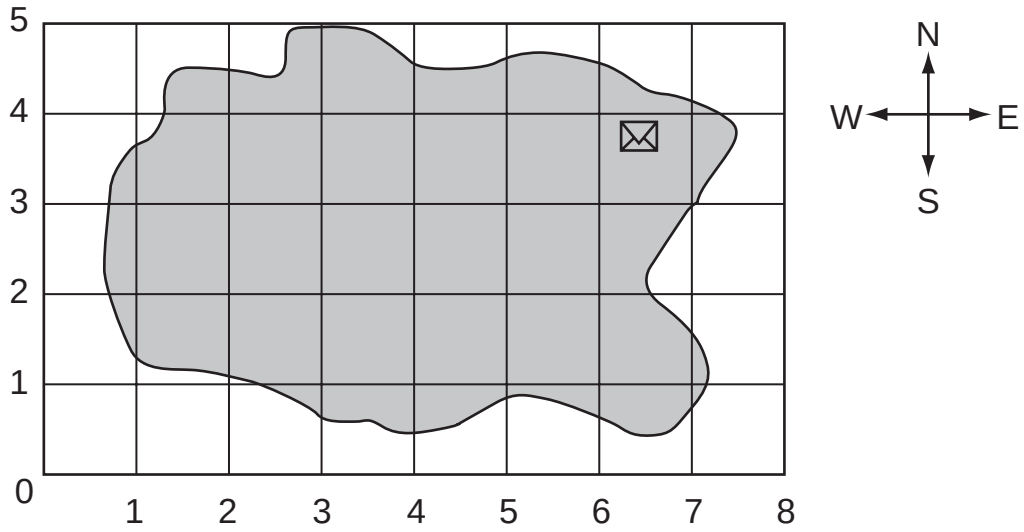
10 Look at the triangles below.

Tick (✓) the isosceles triangles.



[1]

11 Here is a map:



(a) An envelope containing a clue is hidden on the island.

Use compass directions to complete this sentence.

The envelope is in the .....of the island. [1]

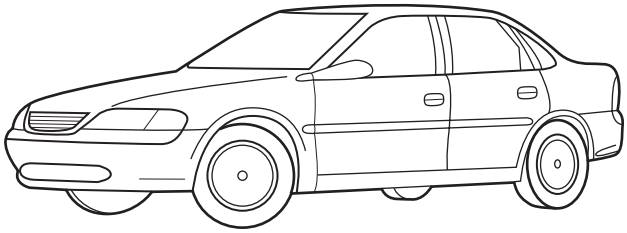
(b) $1 million of diamonds is hidden in a cave at point (4, 3).

Mark the point to show the location of the diamonds.

[1]

Page Total

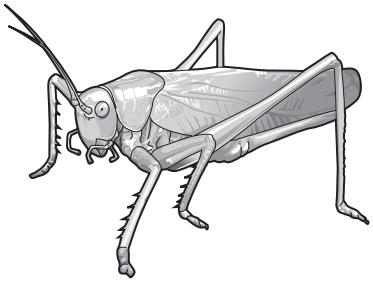
12 The length of a car is measured as 395 cm.



Give the length of the car using units other than centimetres.

..... [1]

13 A grasshopper has 6 legs.



How many legs do 5 grasshoppers have?

.....legs [1]

Page Total

14 Chaminder likes fishing.
He buys some fishing tackle.
He buys 4 floats, 10 hooks and 1 reel.

Fishing Shop

Hooks	$0.37 each	
Floats	$1.80 each	
Reel	$15.50	

How much change does he get from $50?

You **must** show your working.

..... [3]

Page Total

15 Alfredo counted vehicles outside his school.
He recorded the totals on a tally chart.

Car	𝍸 𝍸 𝍸 𝍸 |||
Bicycle	𝍸 𝍸 𝍸 𝍸 𝍸 ||
Bus	𝍸 |||
Lorry	𝍸 𝍸 |||
Scooter	

(a) How many more cars were there than buses?
Give your answer as a number.

..... [1]

(b) Alfredo also counted 17 scooters. Record this total on the tally chart.

[1]

16 **(a)** Order these numbers from high to low. The first two have been done for you.

25456 23546 24645 25746 23690

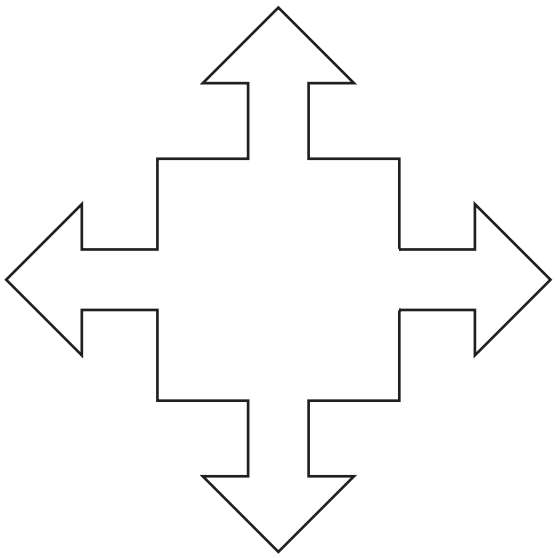
25746 25456 .... [1]

(b) Write a correct number in the box.

25234 < ☐ < 25245 [1]

Page Total ☐

17 Draw all the lines of symmetry in this shape.



[1]

18 Serina's baby sister weighed 18 kg when she was 3 years old.

Since then her weight has increased by 5%.

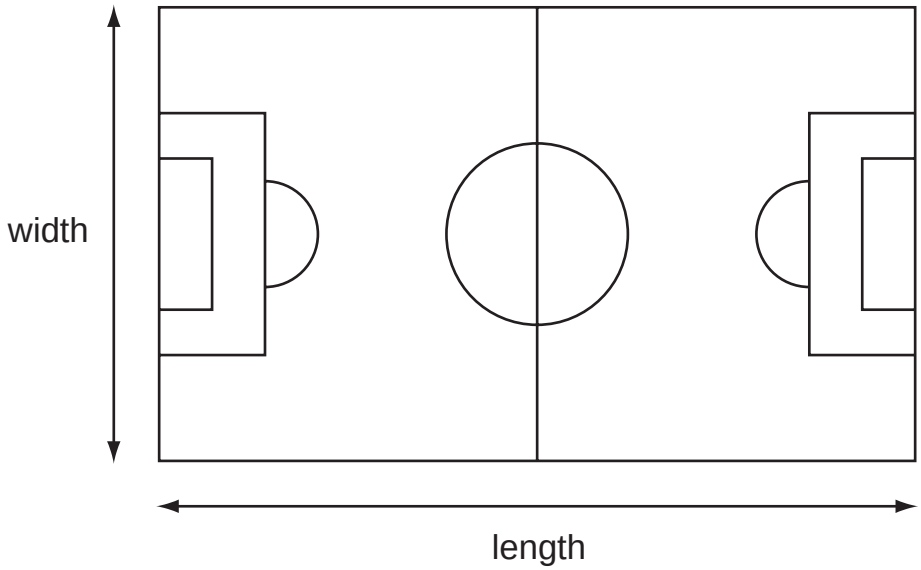
What is her weight now?

You **must** show your working.

.....kg [2]

Page Total

19 A new white line is painted around the perimeter of a soccer pitch.



(a) Describe a way to calculate the perimeter of the pitch.

..... [1]

(b) If the length of the pitch is 90 m and the width is 50 m, what is the perimeter of the pitch?

..... m [1]

20 Here is a set of decimals.

75.5 7.5 7.05 70.5 75.05

Write these decimals in order, starting with the smallest.

....

smallest largest [1]

Page Total

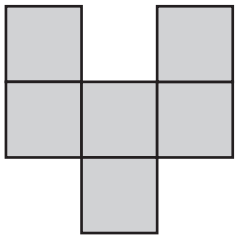
21 Calculate 68.5 ÷ 5.

You **must** show your working.

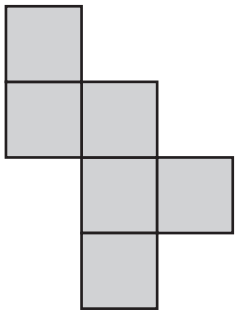
..... [2]

22 Naadiya draws 3 nets for a cube.

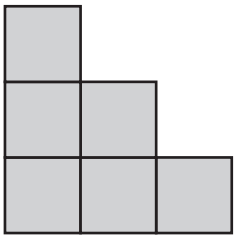
Net A



Net B



Net C

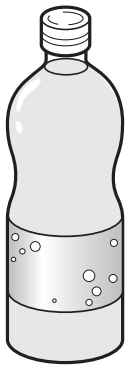


Which net folds into a cube?

..... [1]

Page Total

23 (a) Hendrik buys a bottle of lemonade.
The bottle holds 2 litres of lemonade.



Estimate how much the bottle weighs.
Tick (✓) the correct answer.

10g

50g

2kg

10kg

[1]

(b) How long is this line?
Give your answer in mm.

.....mm [1]

Page Total

24 Sam says, 'If I toss a coin it is equally likely to land on one side as the other.'

Tick (✓) **two** other equally likely events.

A child will go to bed before midnight.	☐
A 1 to 6 dice will land on an even number.	☐
It will rain today.	☐
Sam will choose a red sweet from a bag containing 4 red and 4 blue sweets.	☐

[2] ☐

25 There are 20 students in Saadia's class.

20% of the students like classical music.
65% of the students like pop music.

(a) How many students like classical music?

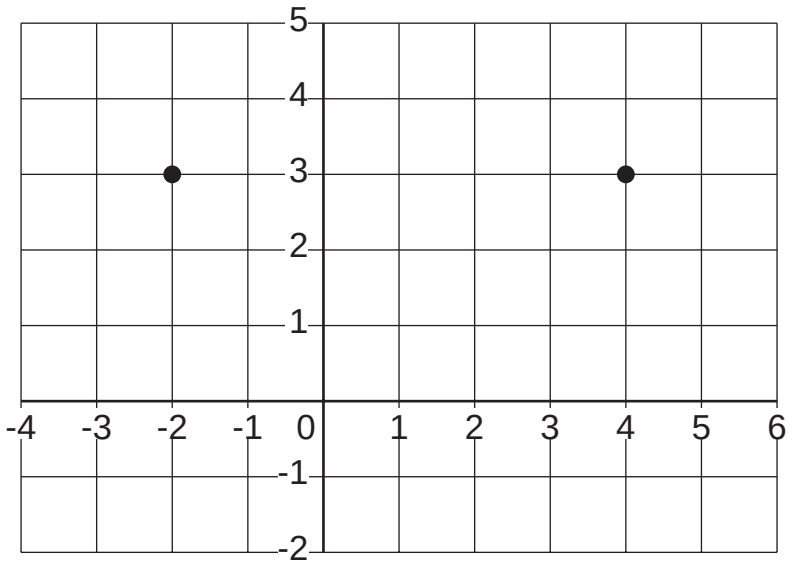
..... [1] ☐

(b) How many students like pop music?

..... [1] ☐

Page Total ☐

26



(a) The points (-2 , 3), (4 , 3) are two of the four vertices of a rectangle. Plot the third vertex at (-2 , -1).

[1]

(b) What are the co-ordinates of the fourth vertex?

(..... , ...) [1]

Page Total

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

7490881588

MATHEMATICS **0842/02**

Paper 2 **October/November 2008**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
Page	**Mark**
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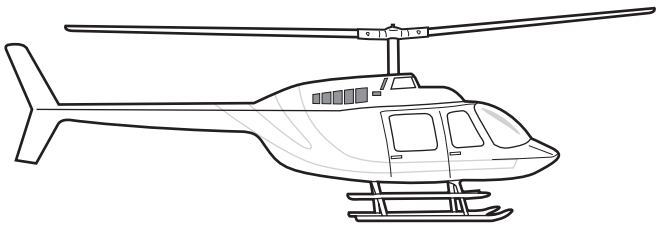
This document consists of **13** printed pages and **3** blank pages.

1 What number is 10 more than 79?

..... [1]

2 Guiseppe buys two remote control helicopters.
Each helicopter costs $45.



How much do his helicopters cost altogether?

$ ..... [1]

3 Kolo goes to school five days a week.
The bus journey from home to school takes 15 minutes.

How much time does he spend each week travelling to school and home again?

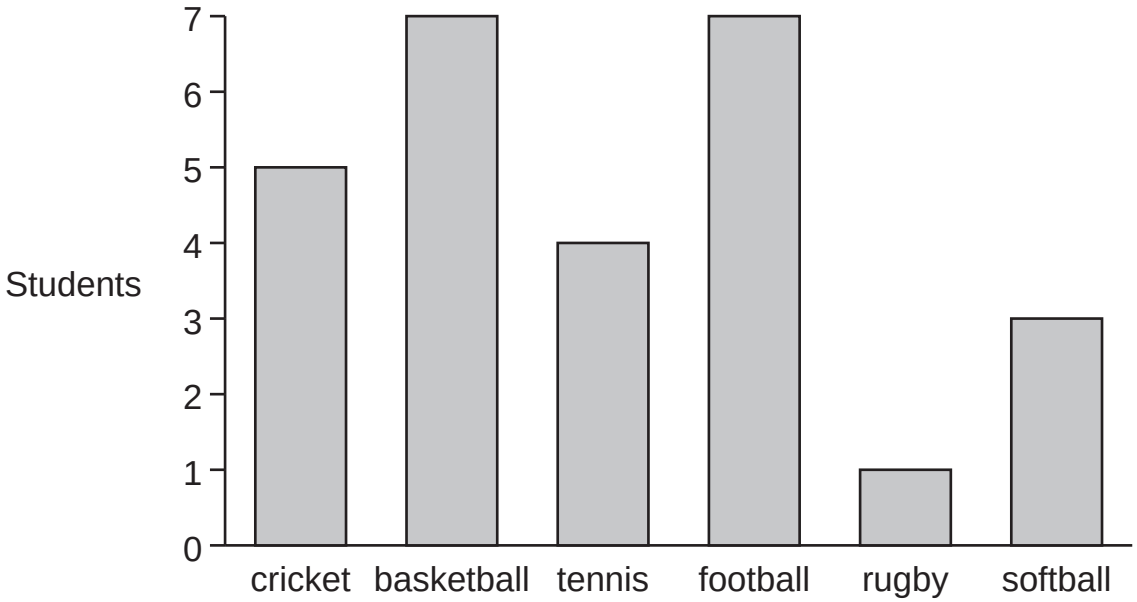
Give your answer in hours and minutes.

You **must** show your working.

..... hours ..... minutes [2]

Page Total

4 Igor asks his class about their favourite sports.
The results are shown in this bar graph.



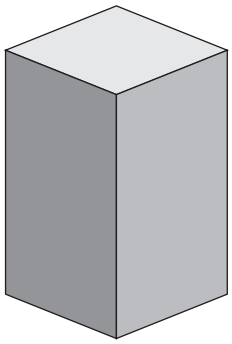
(a) How many students like basketball?

..... [1]

(b) How many more students like cricket than rugby?

..... [1]

5 Here is a drawing of a 3D shape.

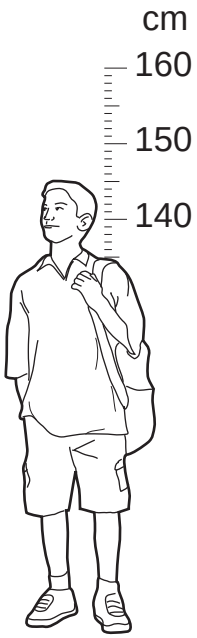


What is the name of this shape?

..... [1]

Page Total

6 Nathaly measures Carlos' height.



How tall is Carlos?

..... cm [1]

7 Jesse collects information about the students in her class.
She draws a Carroll diagram to show her results.

	Left-handed	Right-handed
Glasses	1	8
No glasses	4	15

(a) How many students are right-handed?

..... [1]

(b) How many students wear glasses?

..... [1]

Page Total

8 **(a)** What is the value of the 6 in 10.36?

..... [1]

(b) Write 0.6 as a fraction.

..... [1]

9 Syafiq buys 12 cookies.

He gives $\frac{1}{3}$ of the cookies to his mother.

He gives $\frac{1}{6}$ of the cookies to his younger brother.

(a) How many cookies does he give to his mother?

..... [1]

(b) How many cookies does he give to his younger brother?

..... [1]

10 4 oranges are needed to make a glass of freshly squeezed juice.

Alvaro has 53 oranges on his stall.

How many full glasses of juice can he make?

..... [1]

Page Total

11 Oriane's family work out how long it will take them to travel from Pisa to Rome.

Their satellite navigation tells them that the total journey will take 3 hours 53 minutes.

(a) If they leave Pisa at 8.30 am, what time should they arrive in Rome?

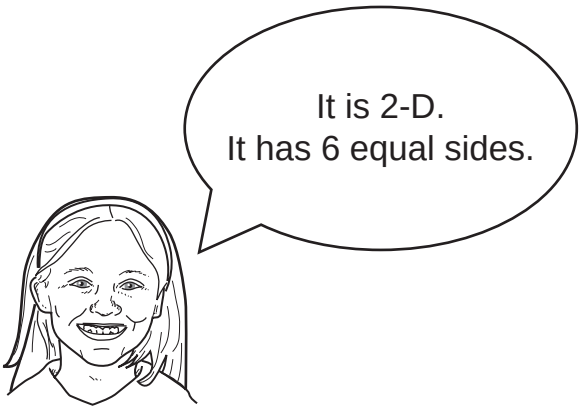
..... [1]

(b) A scenic route would take 4 hours 22 minutes.

How much more time would they take if they took this route?

..... minutes [1]

12 Maria describes a shape.



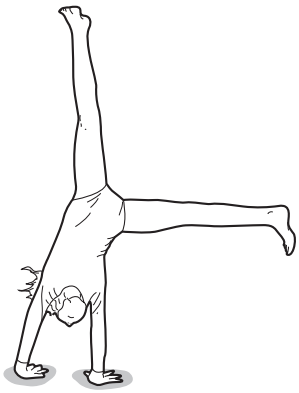
What is the shape?

..... [1]

Page Total

13 Salote is a gymnast.

She does cartwheels.

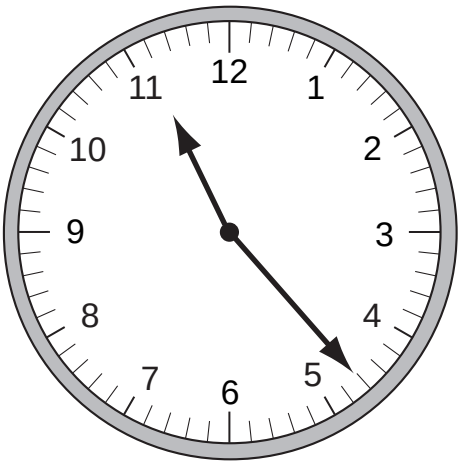


How many degrees does Salote rotate in one complete turn?

..... [1]

Page Total

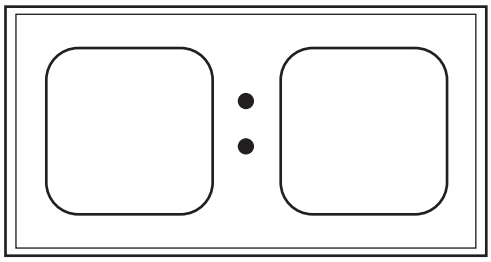
14 (a) What time is shown on this clock?



Do **not** use words in your answer.

..... [1]

(b) Enter the time of ten minutes to three on the digital clock below:



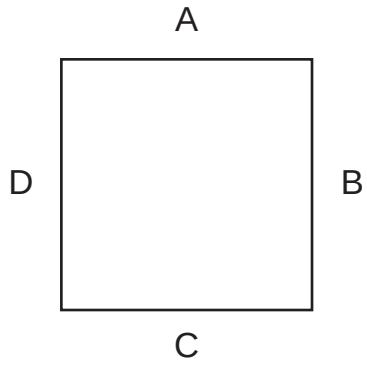
[1]

15 Find **three different** numbers which add up to 1.

[ ] + [ ] + [ ] =1 [1]

Page Total

16



(a) Which **two** lines are parallel to each other?

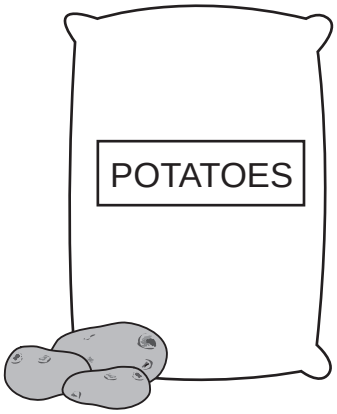
..... and ..... [1]

(b) Which **two** lines are perpendicular to each other?

..... and ..... [1]

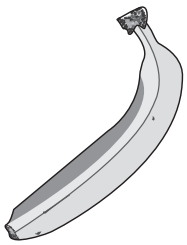
Page Total

17 (a) Circle an appropriate unit to measure the mass of a bag of potatoes.



cm kg ml g cl [1]

(b) Circle the approximate length of a banana.



2 mm 20 mm 200 mm 2000 mm [1]

Page Total

18 Sanah plays basketball.

(a) Each basketball team has 5 players and 5 substitutes.

How many people are there in 4 basketball teams?

..... [1]

(b) Sanah orders shirts for her basketball team.

Shirts come in packs of 4.
Sanah needs to buy 10 shirts.

How many packs of shirts should she buy?

..... [1]

19 Joshua swims lengths at his local swimming pool.
He records his best times each morning for a week.

Day	Time (seconds)
Monday	29.83
Tuesday	27.61
Wednesday	30.42
Thursday	30.23
Friday	28.47

What is the range of his times?

..... seconds [1]

Page Total

20 (a) Write $4\frac{3}{4}$ as an improper fraction.

$\square$
$\overline{\square}$

[1]

(b) Circle a fraction from the list that is equivalent to $\frac{5}{8}$.

$\frac{15}{20}$ $\frac{12}{20}$ $\frac{15}{24}$ $\frac{10}{15}$ $\frac{20}{28}$

[1]

21 Fong has $28.
He shares it between his two sisters in the ratio 3 : 4.

How much money does each sister get?

You **must** show your working.

$ ..... $ ..... [2]

Page Total

22 Nanala and Byama are discussing.

Nanala says that ½ is smaller than 0.5
Byama says that ½ is the same as 0.5

Who is correct?
Explain how you know.

.....

..... [2]

23 Write the name of each quadrilateral in the correct box.

trapezium rhombus rectangle

Four equal sides.	Four right angles.	One pair of opposite parallel sides.
.....	.....	.....

[2]

24 Circle **all** the prime numbers.

1 2 3 4 5 6 7

8 9 10 11 12 13 14 15

16 17 18 19 20

[1]

25 Put brackets to make this calculation correct.

5 × 3 + 7 - 20 = 30

[1]

Page Total

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

6871995317

MATHEMATICS **0842/03**

Paper 3: Student Answer Sheet **October/November 2008**

approx. 15 minutes

No Additional Materials are allowed.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
One mark will be awarded for each question answered correctly.

This document consists of **2** printed pages.

UNIVERSITY of CAMBRIDGE International Examinations

[Turn over

Write your answers here.

1.		
2.		
3.	**questions**	
4.		
5.		
6.		
7.		
8.	**crayons**	
9.		
10.	**books**	

Write your answers here.

11.			
12.	**grams**		
13.	**2945**		
14.	**questions**		
15.	**$46.32**	**$**	
16.	**passengers**		
17.	**200**	**packets**	
18.			
19.	**3.45**		
20.	**99**		

UNIVERSITY of CAMBRIDGE
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2009

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

2268569197

MATHEMATICS **0842/01**

Paper 1 **May/June 2009**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
Page	**Mark**
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Total	

This document consists of **13** printed pages and **3** blank pages.

1 60 is a multiple of

5 **7** **9** **10**

Circle **all** correct numbers.

[1]

2 **(a)** Steven says, "No odd numbers end in 8."

Is this **true** or **false**? ..... [1]

(b) Explain why you think this statement is **true** or **false**.

..... [1]

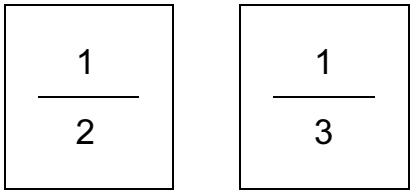
3 Complete the calculation below by writing the correct signs in the boxes.

+ **–** **=**

11 ☐ 3 ☐ 8 [1]

Page Total

4 Gary has two fraction cards.



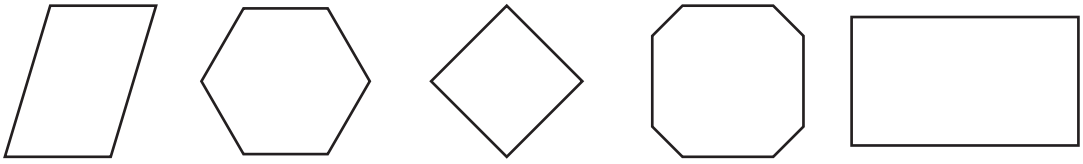
Gary says:

"One half is bigger than one third."

Draw diagrams to show that Gary is correct.

[2]

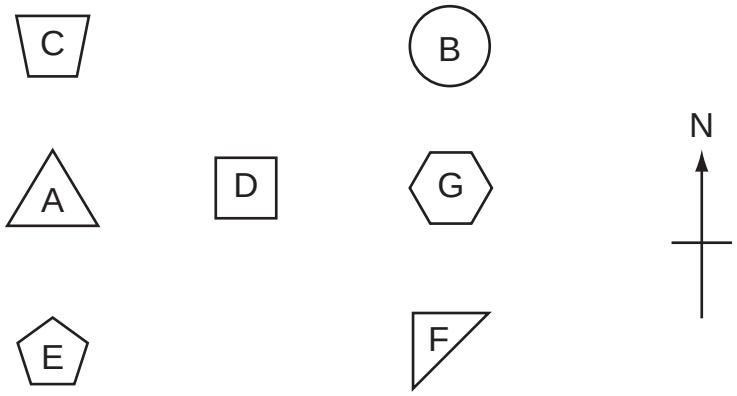
5 Look at the shapes below.
Tick (✓) any shapes that have right angles.



[1]

Page Total

6



(a) What shape is West of shape B?

..... [1]

(b) What shape is North-East of shape D?

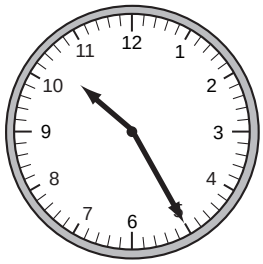
..... [1]

(c) Usma stands at shape D.

What direction must she travel to get to shape E?

..... [1]

7 Give the time shown on the clock **in words**.



..... [1]

Page Total

8 **(a)** Write **ten thousand five hundred and twenty three** using **numbers**.

..... [1]

(b) What is the value of the **1** in **2612**?

..... [1]

9 **(a)** Round 734 to the nearest ten.

..... [1]

(b) Round 467 to the nearest hundred.

..... [1]

10 A sequence starts 2, 6, 10, 14 ….

Explain the rule for this sequence.

..... [1]

11 9, 10 and 11 are consecutive numbers.

Find **three** consecutive numbers which add up to 15.

.... [1]

Page Total

12 Megan collects stamps.
She keeps a record of where the stamps come from.

Here are her results.

Region	Frequency
Europe	5
America	3
Asia	9
Rest of the World	6

(a) Megan draws a bar chart to show her results.

Which region will have the smallest bar?

..... [1]

(b) What is the modal region?

..... [1]

(c) What is the range of the frequencies?

..... [1]

Page Total

(d) Megan collects some more stamps.
She makes a new table of results.

Region	Frequency
Europe	5
America	3
Asia	9
Africa	2
Rest of the World	11

What is the median number of stamps?

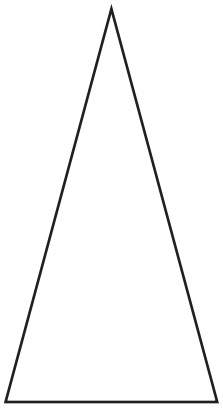
..... [1]

(e) What is the mean number of stamps?

..... [1]

Page Total

13 Look at this triangle.



What type of triangle is it? Tick (✓) **one** box.

equilateral	☐
isosceles	☐
scalene	☐
right angled	☐
none of these	☐

[1] ☐

14

(a) 9786 × 100 = ... [1] ☐

(b) 8362 ÷ 10 = ... [1] ☐

Page Total ☐

15 Calculate the missing numbers.

(a) 23 + ☐ = 100

[1]

(b) ☐ + 0.6 = 1

[1]

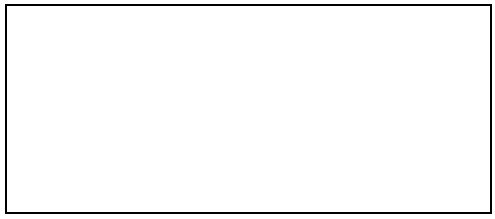
16 (a) Nanala describes a triangle.

"It has 2 equal sides.
It has 1 obtuse angle."

Draw Nanala's triangle.

[1]

(b) Byama describes a rectangle.



"It has 2 pairs of parallel sides.
It has 4 right angles."

Write **one** more property of a rectangle.

..... [1]

Page Total ☐

17 **(a)** Write 4.25 kg in grams.

.....g [1]

(b) Write 0.75 litres in millilitres.

..... ml [1]

18 Use brackets to make these statements correct.

4 + 3 × 6 - 2 = 28

4 + 3 × 6 - 2 = 20

[1]

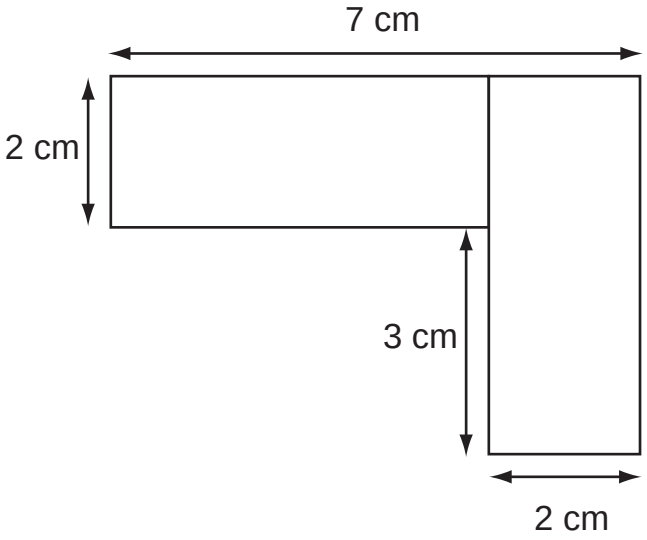
19 Draw an angle of 128º.

[1]

Page Total

20 This rectangle measures 5 cm by 2 cm.
The area of the rectangle is 10 cm^2.

Calculate the area of this shape.



.....cm^2 [1]

21 Put these fractions in order, largest first.

$\frac{2}{5}$ $\frac{7}{10}$ $\frac{4}{5}$ $\frac{1}{2}$

....

Largest Smallest [1]

Page Total

22 **(a)** How many days are there in 8 weeks?

Number of days = ... [1]

(b) Write a formula for the number of days in (x) weeks.

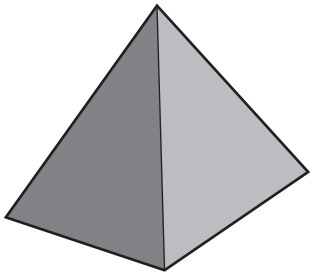
Number of days = ... [1]

23 What is double 3800?

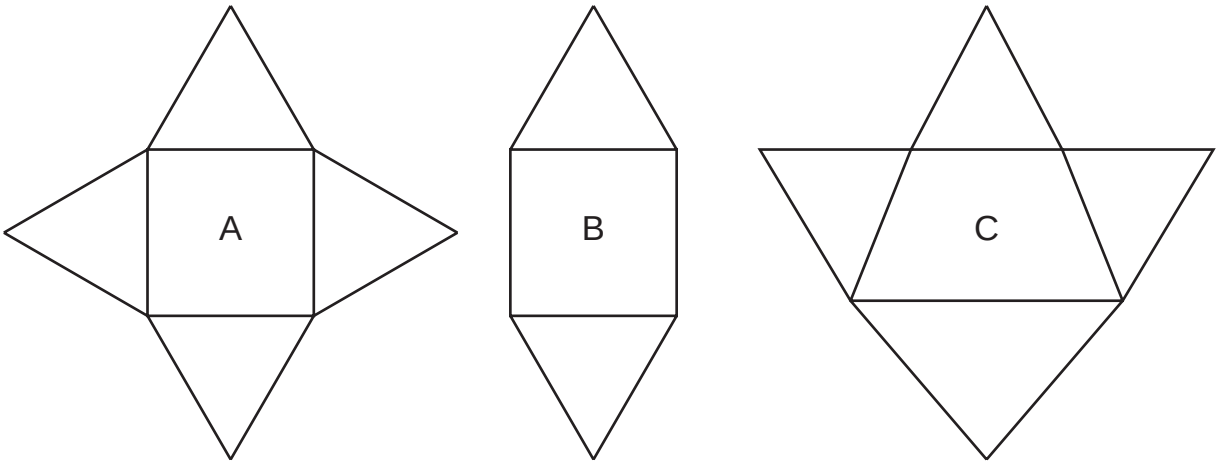
..... [1]

Page Total

24 Look at the drawing of a solid shape:



Which of the nets below would make this shape if it were folded?



..... [1]

Page Total

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

8401464455

MATHEMATICS **0842/02**

Paper 2 **May/June 2009**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
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16	
Total	

This document consists of **14** printed pages and **2** blank pages.

1 Here are 4 numbers.

91 47 43 79

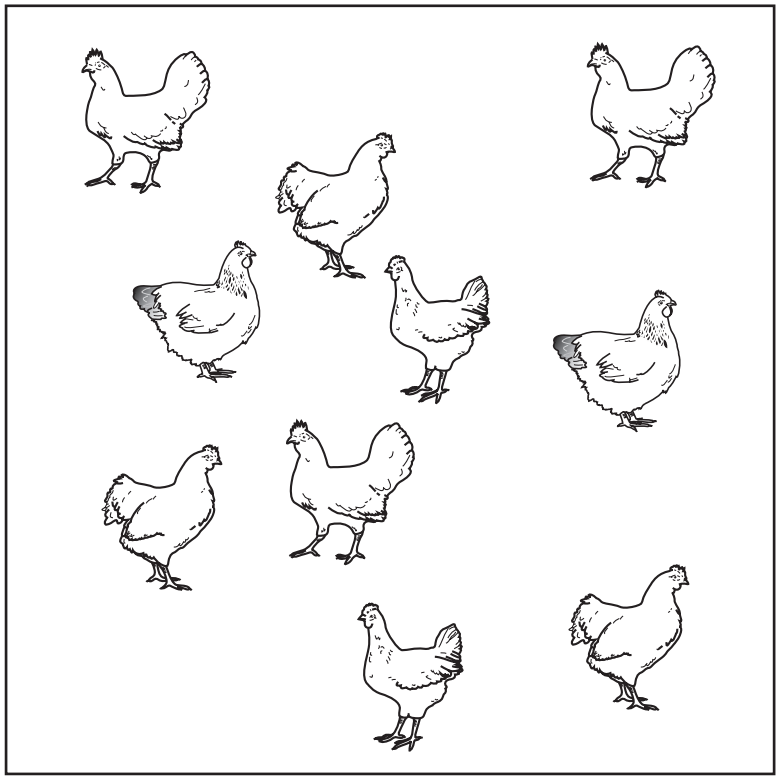
Put them in order from largest to smallest.

....

Largest Smallest [1]

2 Here are some chickens.

Draw a circle round $\frac{1}{5}$ of the chickens.



[1]

Page Total

3 **(a)** Complete the following calculation.

35 + ☐ = 100 [1]

(b) Manfred drives 450 km each week.

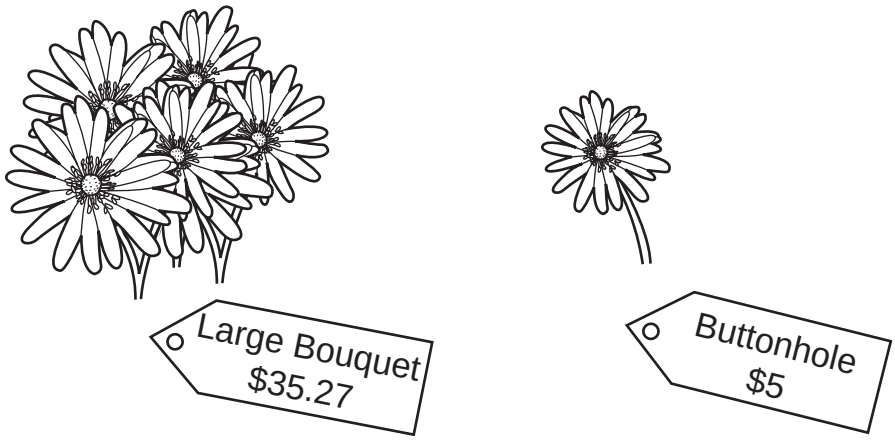
How many km does he drive in two weeks?

..... km [1]

Page Total ☐

[Turn over

4 **(a)** Lailee is planning a wedding.



She orders a large bouquet and 6 buttonholes.

How much change does she get from $100?

$ ..... [2]

(b) Lailee wants to order small bouquets.

She cannot spend more than $65 in total.

Lailee says she can order 3 small bouquets.

Is she correct?

Write a calculation to help explain your answer.

..... [2]

Page Total

5 **(a)** Write in figures forty three thousand and seventy-five.

..... [1]

(b) Write in words 6459.

..... [1]

6 Circle the odd numbers.

567	746	764	674	466
646	476	576	476	
676	454	765	654	764

[1]

7 Billah checks his calculations with the inverse operation.

$486 - 47 = 439$ $\rightarrow$ because $439 + 47 = 486$ ✓

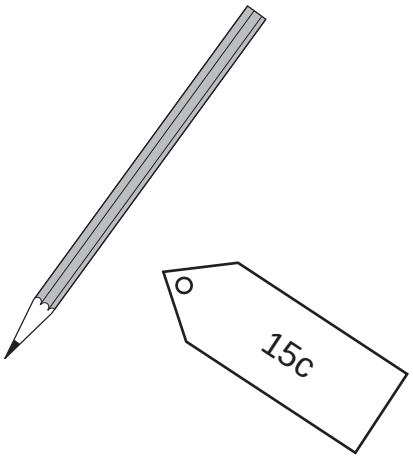
Show how to check this calculation using the inverse operation.

$314 - 58 = 256$

[1]

Page Total

8 Pencils cost 15c each.
How many pencils can Meera buy for $1?



.....pencils [1]

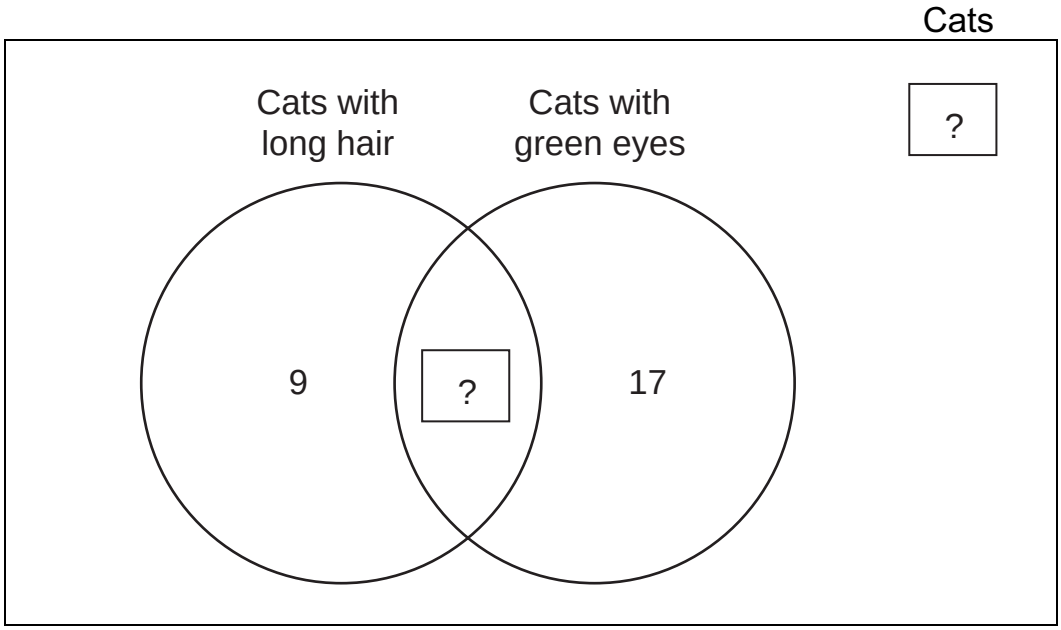
9 Explain how to work out 68 ÷ 2

..... [1]

Page Total

10 Julia recorded data about cats in her village.

14 cats have long hair.



(a) How many cats have long hair and green eyes?

..... cats [1]

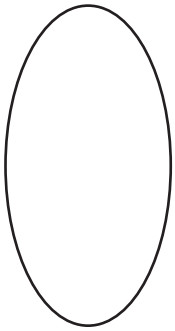
(b) In total Julia recorded 43 cats.

How many cats do **not** have long hair or green eyes?

..... cats [1]

Page Total

11 Here is a 2D shape.



(a) How many lines of symmetry does it have?
You can draw them if it helps.

..... lines of symmetry [1]

(b) Name another 2D shape with the same number of lines of symmetry.

..... [1]

12 Murray turns exactly a quarter turn.

(a) Write this amount of turn as a measurement, with the correct units.

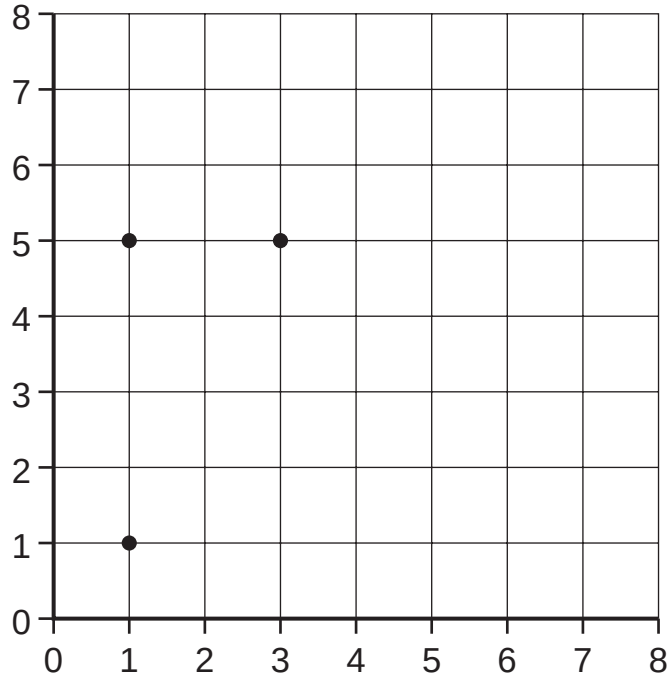
..... [1]

(b) How many right angles are there in a full turn?

..... [1]

Page Total

13 (a) These dots are 3 corners of a rectangle.



What is the co-ordinate of the missing point?

(..... , ...) [1]

(b) Put a cross at (7, 6).

[1]

Page Total

14 **(a)** Write the next **two** numbers in this sequence of prime numbers.

5 7 11 13 .... [1]

(b) What is the only **even** prime number?

..... [1]

(c) Is 1 a prime number?

..... [1]

15 What is 139072.5 ÷ 6?

Give your answer to 1 decimal place.

..... [1]

16 Here is a magic square, but some numbers are missing.
Each row, column and diagonal must add up to the same number.

Complete the magic square.
You must **not** use the same number twice.

4		**9**
	6	
3		**8**

[3]

Page Total

17 Ramesh learns to hold his breath underwater.

He practises 5 times.

The table shows how long he holds his breath each time in second(s).

Time 1	18.4s
Time 2	18.2s
Time 3	17.4s
Time 4	17.8s
Time 5	18.2s

To join the swimming club, Ramesh has to hold his breath for 18 seconds.

(a) Can Ramesh join the swimming club?

..... [1]

(b) Use averages to explain your answer.

..... [1]

(c) Byama also practices holding his breath underwater five times.

Here are his times in seconds.

Time 1	17.7s
Time 2	18.1s
Time 3	17.9s
Time 4	17.8s
Time 5	17.9s

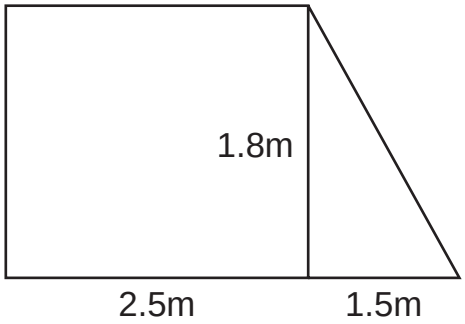
Byama holds his breath one more time.

Circle the word that describes the likelihood that he will hold his breath for 18 seconds or more.

certain **likely** **unlikely** **impossible** [1]

Page Total

18 Elliot digs a vegetable plot.



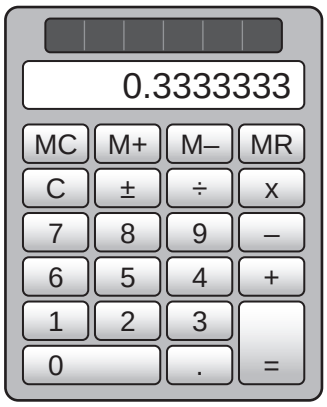
Calculate the area of the vegetable plot. **Include the right units**.

Show your working, you may get a mark.

..... [2]

Page Total

19 Barika does a calculation on her calculator. Here is her answer.



Write the answer as a fraction.

..... [1]

20 A vase contains 25 flowers.
The flowers are red or yellow.
There are 3 red flowers to every 2 yellow flowers.

How many red flowers are there?

..... red flowers [1]

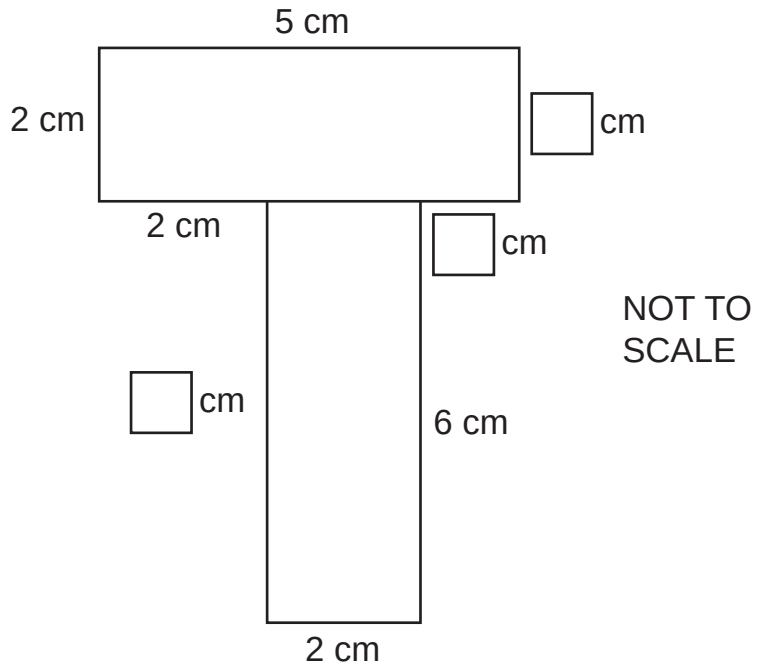
21 A gold miner digs 2.395 tonnes of gold ore in 14 days.

How much ore is this in kg?

..... kg [1]

Page Total

22 This shape is made of two rectangles.



(a) Find the missing numbers.

[1]

(b) Find the perimeter of the shape.

..... [1]

Page Total

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

5308267015

MATHEMATICS **0842/03**

Paper 3: Student Answer Sheet **May/June 2009**

approx. 15 minutes

No Additional Materials are allowed.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
One mark will be awarded for each question answered correctly.

This document consists of **2** printed pages.

Write your answers here.

1.		
2.		
3.	**cartons**	
4.	**tennis balls**	
5.	**$**	
6.		
7.		
8.	**beads**	
9.		
10.	**cakes**	

Write your answers here.

11.		**m**	
12.			
13.		**years old**	
14.	**43 27 55**	**points**	
15.	**340**		
16.	**$**		
17.	**32 + 9 = 41**		
18.	**0.34**		
19.			
20.		**sweets**	

Page Total

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

8711385799

MATHEMATICS **0842/01**

Paper 1 **October/November 2009**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
The number of marks is given in brackets [ ] at the end of each question or part question.
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For Examiner's Use	
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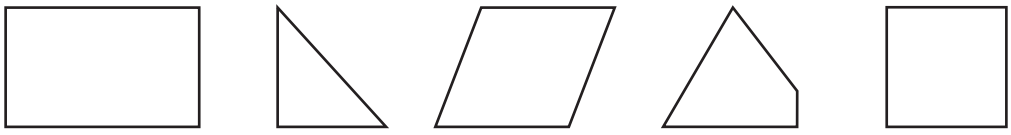
This document consists of **11** printed pages and **1** blank pages.

1 Write the number two thousand, six hundred and five in figures.

..... [1]

2 Tick (✓) the shapes which have **one** right angle.



[1]

3 Complete the calculations below.

55 + ☐ = 100

100 – ☐ = 65

[1]

Page Total

4 Here are some items for sale in a shop.

(a) Anna buys 2 sweets and 1 lollipop.
How much does she spend?

..... cents [1]

(b) How much change does she get from 20 cents?

..... cents [1]

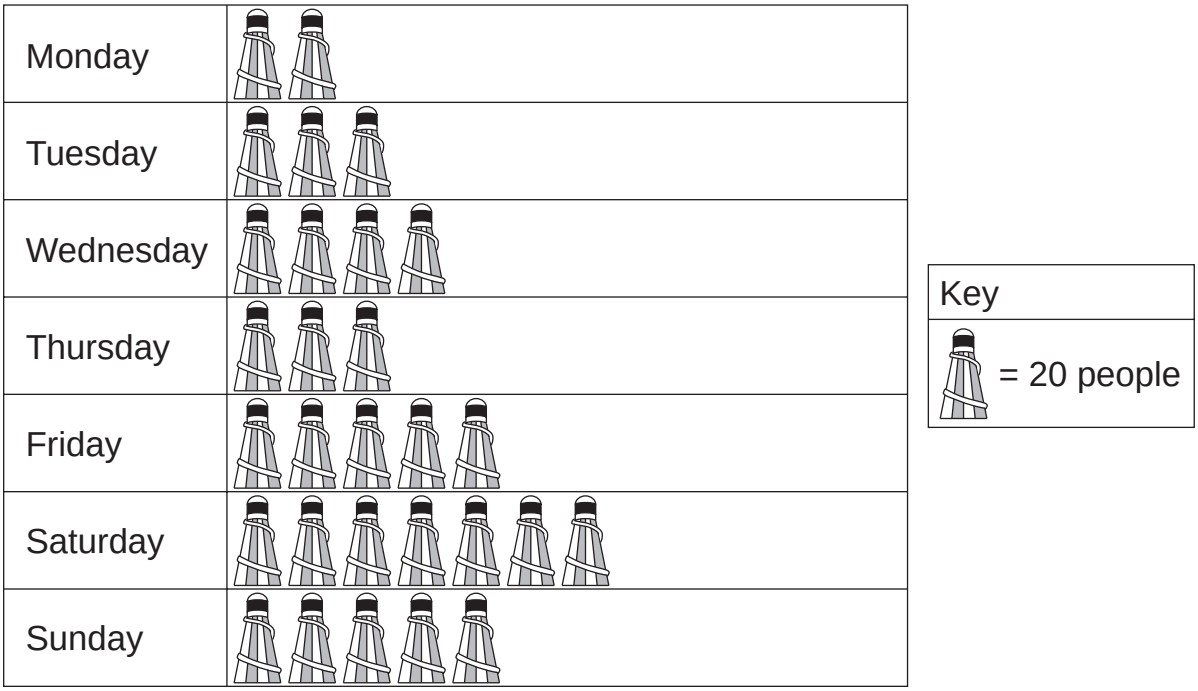
5 Every morning Sunil wakes up at ten minutes to six.

Write this as a digital time.

: [1]

Page Total

6 This pictogram shows how many people go to a theme park each day during one week.



(a) How many people go to the theme park on Wednesday?

..... [1]

(b) On which **day** of the week do most people visit the theme park?

..... [1]

(c) A ticket for the theme park costs $10. How much money did the theme park take on Monday?

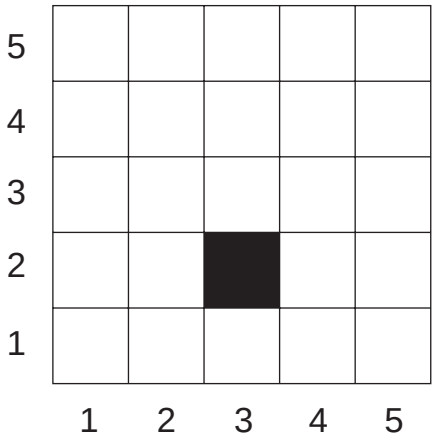
..... [1]

7 What **value** does the 7 have in the number 372?

..... [1]

Page Total

8 Look at the grid.



(a) What is the position of the shaded square?

(..... , ...) [1]

(b) Shade in the square (4, 5).

[1]

9 Alice uses the number cards **5** **6** **30** to write a multiplication.

5 × **6** = **30**

Use the same number cards to complete

□ ÷ □ = □

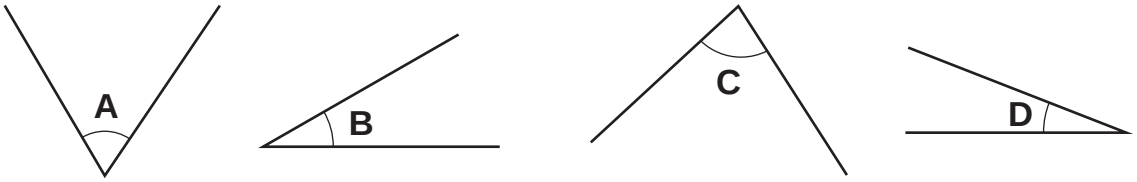
[1]

Page Total

10 Round 365 to the nearest 100.

..... [1]

11 **(a)** Put these angles in order of size, starting with the **smallest**.



.... [1]

smallest **largest**

(b) What unit is used to measure angles?

..... [1]

12 Sachi draws a Carroll Diagram.
She writes in some numbers.

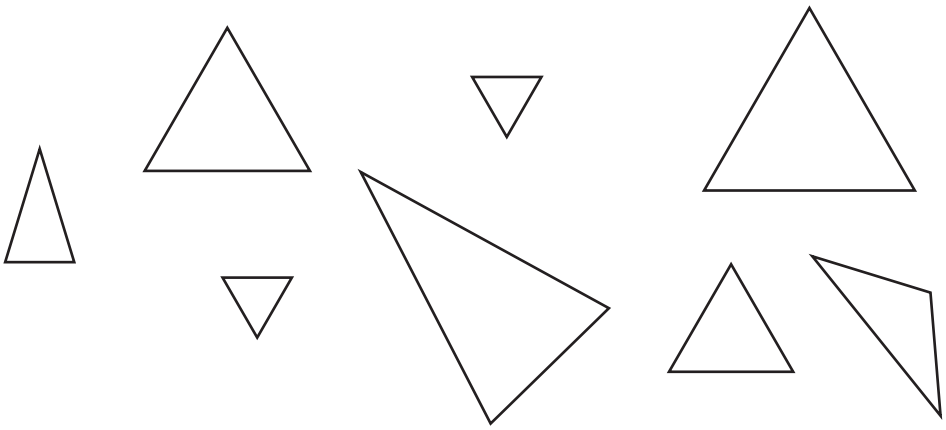
	prime	**not prime**
odd	3, 5	1
not odd	2	4, 6

[2]

Write the numbers 7, 8 and 9 in this diagram.

Page Total

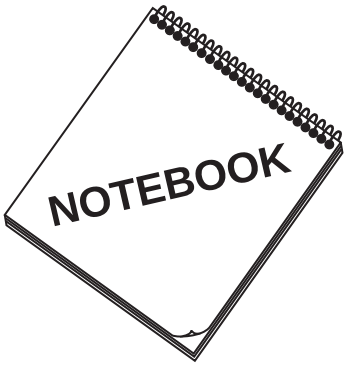
13 Tick (✓) the isosceles triangles.



[2]

14 Koffi buys 4 notebooks for a total of $8.

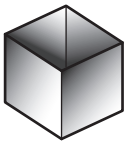
How much do 6 notebooks cost?

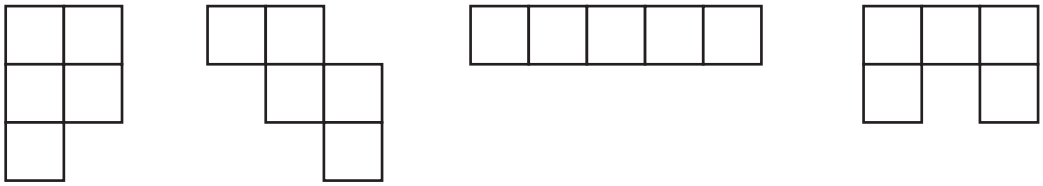


$ ..... [2]

Page Total

15 Tick (✓) the net which will fold to make a box without a lid.





[1]

16 Circle **all** the multiples of 9.

38 81 26 76 45 63

[1]

17 Complete the sentences below.

1 centimetre = ... millimetres

1 litre = ... millilitres [1]

Page Total

18 Salim draws some patterns of dots.

Pattern 1 Pattern 2 Pattern 3 Pattern 4 Pattern 5 Pattern 6

(a) Draw Pattern 6.

[1]

(b) How many dots will there be in Pattern 10?

..... [1]

(c) Write a general rule for the number of dots in each pattern.

..... [1]

19 What is 25% of $500?

$ ..... [1]

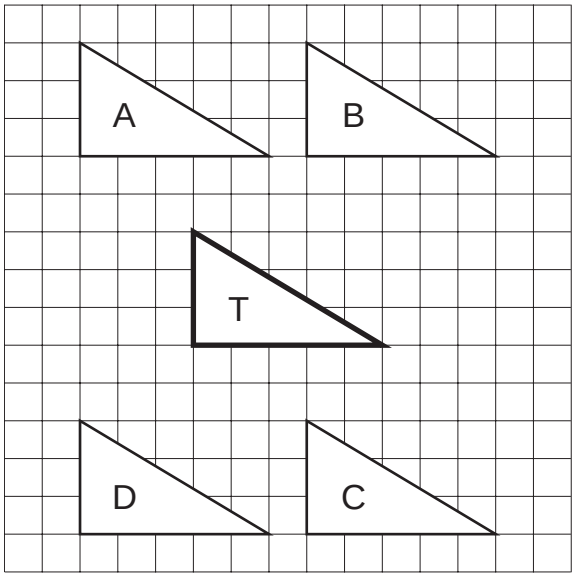
20 Calculate 572×46

Show your working out.

[2]

Page Total

21 Which triangle shows triangle T **after** a translation of 3 squares right and 5 squares down?



..... [1]

22 Write $\frac{3}{5}$ as a percentage.

..... [1]

23 480 matches are put into 12 boxes.
Each box contains the same number of matches.
How many matches are in 5 boxes?

Show your working out.

..... matches [2]

Page Total

24 Complete the multiplication grid.

×	4		7
2	8	10	14
9	36	45	
	12		21

[2]

25 Complete the table.

		Sum	Difference
380	245		135
525	260	785	

[1]

[1]

Page Total

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

7647434016

MATHEMATICS **0842/02**

Paper 2 **October/November 2009**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
1	
2	
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9	
10	
11	
12	
Total	

This document consists of **11** printed pages and **1** blank page.

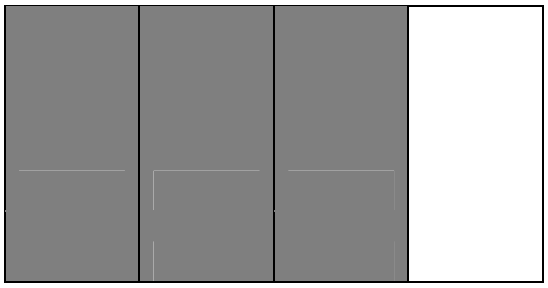
1 Write these numbers in order of size, starting with the **smallest**.

83 38 3 8

..... , ... , ...

smallest **largest** [1]

2 What fraction of this shape is shaded?



..... [1]

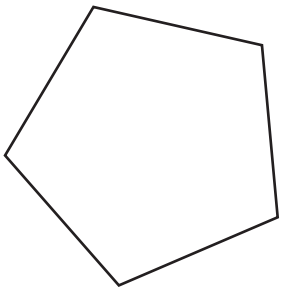
3 Here is part of a number sequence.

Fill in the missing number.

347, 337, 327, ..., 307 [1]

Page Total

4 Here is a regular polygon.



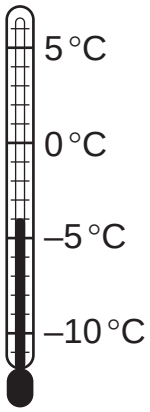
(a) What is its name?

..... [1]

(b) Draw one line of symmetry on the shape.

[1]

5 Write the temperature shown by this thermometer.



..... °C [1]

6 A bar of chocolate costs 21 cents.
How many whole bars of chocolate can be bought for $2?

..... [1]

Page Total

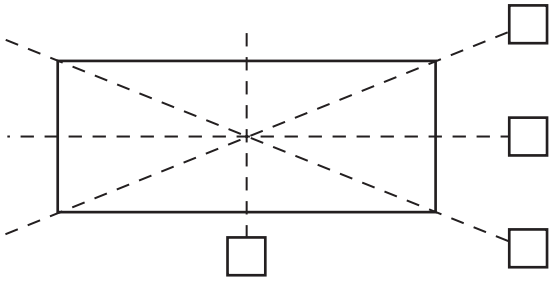
7 How many degrees in half a right-angle?

..... [1]

8 Circle the best unit to measure how long it takes to eat breakfast.

seconds minutes hours days [1]

9 Tick (✓) the lines of symmetry on the shape below.



[1]

10 48 sweets are shared between 5 people.
Each person has the same number of sweets.
How many sweets will be left over?

..... [1]

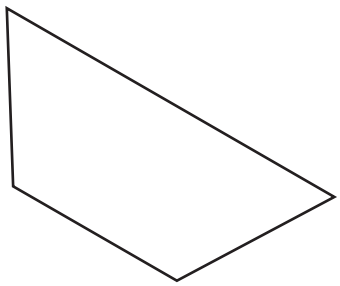
Page Total

11 Match the numbers to their doubles.

	32
8	18
	22
17	16
	24
11	34
	14

[1]

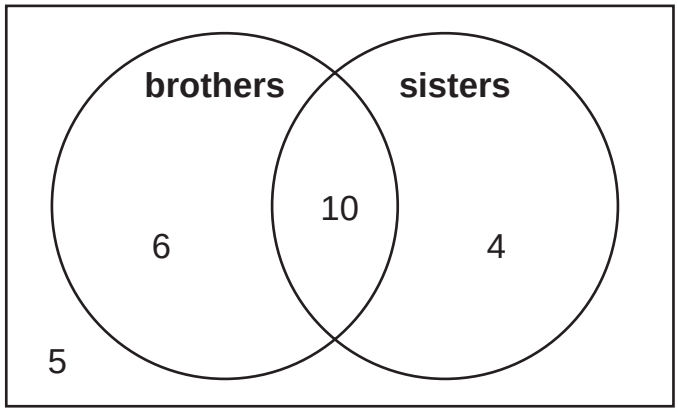
12 Tick (✓) the parallel lines on this shape.



[1]

Page Total

13 Mrs Ali asked her class how many children have brothers or sisters.
The results are shown in the Venn diagram.



(a) How many children have sisters?

..... [1]

(b) How many children have no brothers or sisters?

..... [1]

14 Here is a calendar showing the month of May.

May

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

What date will it be on the Thursday **before** the 1st May?

..... [1]

Page Total

15 Look at this sequence of numbers.

1 2 4 8 16 32 64…

(a) What is the rule for this sequence?

..... [1]

(b) The sequence continues. The number 512 is in the sequence.
What number comes immediately **before** 512?

..... [1]

16 Write 701 850 in words.

..... [1]

17 A set of data contains the numbers 2, 3, 3, 4, 6, 7.

(a) What is the mode for this set of numbers?

..... [1]

(b) What is the range for this set of numbers?

..... [1]

(c) What is the median for this set of numbers?

..... [1]

Page Total

18 Daniel shares a packet of biscuits with his mother and brother.
There are 30 biscuits in the packet.

Daniel's brother eats 20% of the biscuits.

Daniel's mother eats $\frac{1}{3}$ of the biscuits.

How many biscuits are there left for Daniel to eat?

You **must** show all your working.

.....

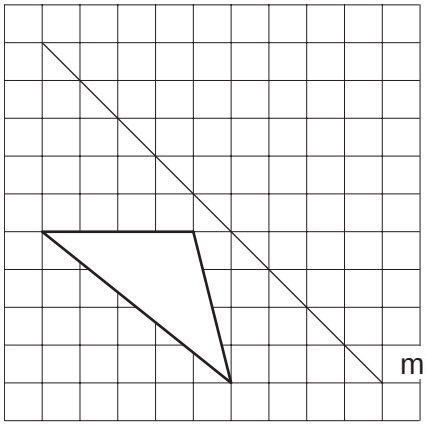
[4]

19 Circle **three** different numbers which add to make 5000.

1000 1500 2000 2500 3000 3500 4000 [1]

Page Total

20 Reflect the shape in the mirror line.



[1]

21 Calculate (25 – 7) + (3 x 4)

..... [1]

22 Draw an angle of 75°.

[1]

23 Write 60 as a product of prime factors.

..... [2]

Page Total

24 The table shows values of **a** and **b**.

a	0	1	2	3
b	3	7	11	15

The rule to calculate **b** is to multiply **a** by 4 and add 3 to the result.

Write this rule using numbers and symbols.

b = ... [1]

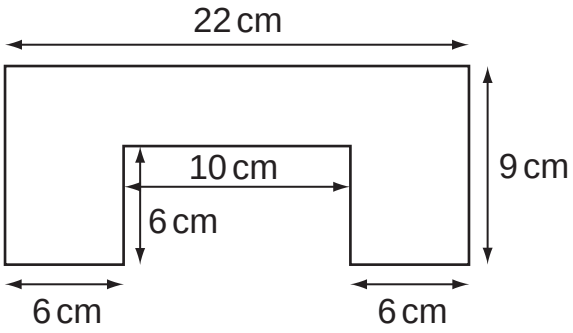
25 Utete writes some calculations.

Write inverse calculations to show that he is correct.

48 ÷ 12 + 3 = 7 .....

3 x 6 + 7 - 4 = 21 ..... [2]

26 Calculate the perimeter and area of this shape.



Not actual size

Perimeter ..... cm [1]

Area ..... cm² [2]

Page Total

27 Complete this calculation by writing **one** digit in each box.

	1	×			0	=	10 500	

[1]

Page Total

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

5217759776

MATHEMATICS **0842/03**

Paper 3: Student Answer Sheet **October/November 2009**

approx. 15 minutes

No Additional Materials are allowed.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
One mark will be awarded for each question answered correctly.

This document consists of **2** printed pages.

Write your answers here.

1.		**35**	
2.	**$**	**21**	
3.	**$**	**70,40**	
4.			
5.	**mm**	**409**	
6.			
7.		**246**	
8.		**39**	
9.			
10.		**24 × 11 = 264**	

Write your answers here.

11.	**dolls**		
12.			
13.		**523**	
14.		**28**	
15.		**48 × 5 = 240**	
16.		**30.2 – 19.8 = 10.4**	
17.		**68**	
18.	**cents**	**21c**	
19.	**cm^2**		
20.			

UNIVERSITY of CAMBRIDGE
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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

5953775446

MATHEMATICS **0842/01**

Paper 1 **May/June 2010**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
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Total	

This document consists of **12** printed pages.

1 What is double 85?

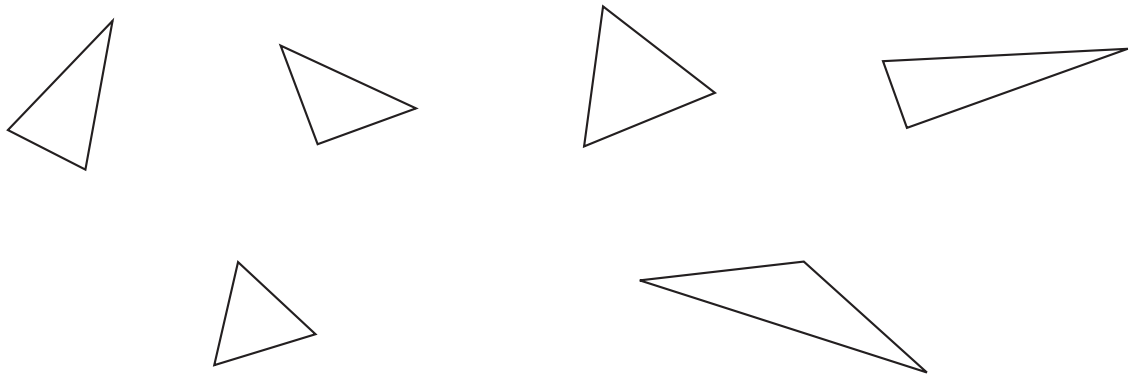
..... [1]

2 Circle the digit worth five tens in the following number.

5 5 5

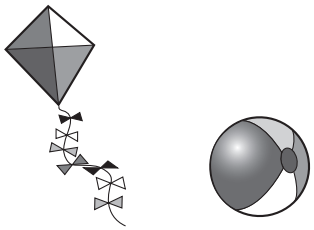
[1]

3 Tick (✓) the equilateral triangles.



[1]

4 Hini buys a kite and a ball.
The kite costs 9 cents and the ball costs 7 cents.



(a) How much does she spend in total?

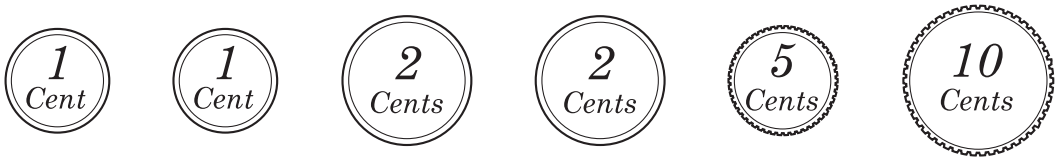
..... cents [1]

Page Total

(b) How much change does she get from 20 cents?

.....cents [1]

(c) Tick (✓) the coins to show her correct change.



[1]

5 **(a)** Here is a set of numbers.

254	542	245
524	452	

Circle the number that is a multiple of 5.

[1]

(b) Here is a different set of numbers.

27	45	85
74	63	

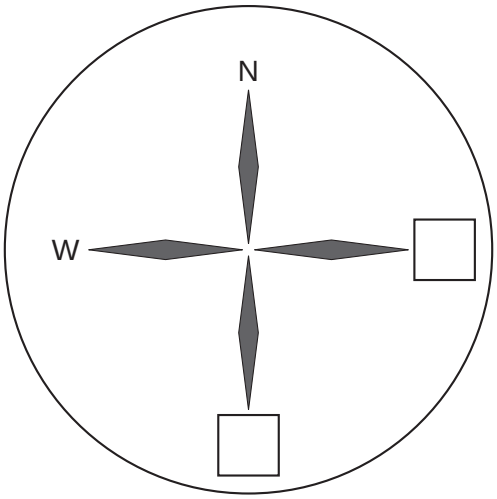
Circle the number that is a multiple of 2.

[1]

Page Total

6 Taniela has a compass but it is broken.

Mend the compass by writing in the missing directions.



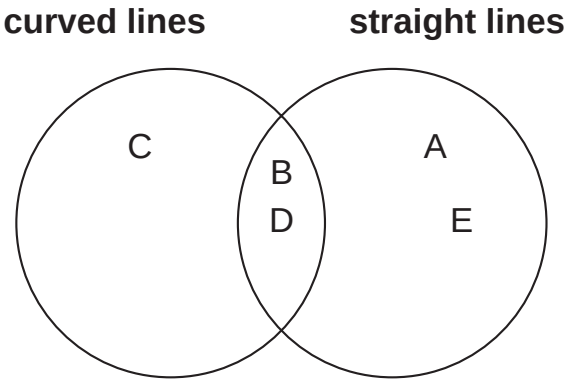
[1]

7 Fill in the missing numbers.

(a) 3 metres = ... centimetres [1]

(b) 2 kilometres = ... metres [1]

8 Ashok writes letters in a Venn Diagram.
Here is his diagram.



Put the letters **F** and **G** in the Venn Diagram.

[1]

Page Total

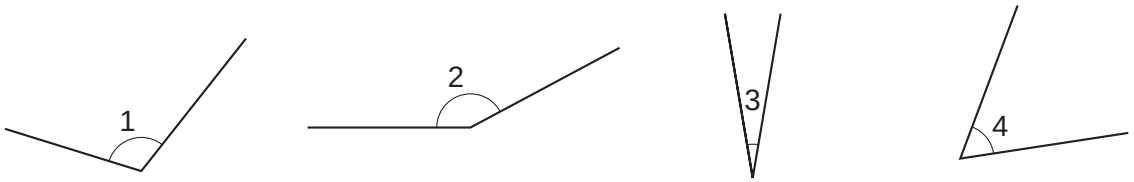
9 Calculate

4 x 8 = ☐

9 x ☐ = 54

[1] ☐

10 Put these angles in order of size, starting with the **largest**.

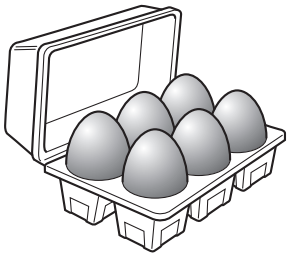


....

largest **smallest**

[1] ☐

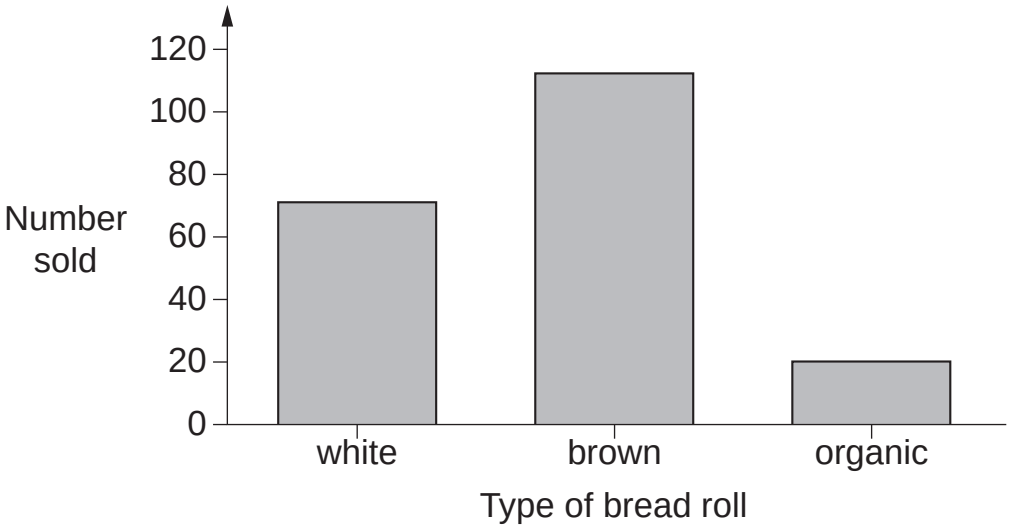
11 There are 6 eggs in a box.
How many boxes will 78 eggs fill?



..... boxes [1] ☐

Page Total ☐

12 The bar chart shows the number of bread rolls sold at a bakery.



How many organic rolls are sold?

..... [1]

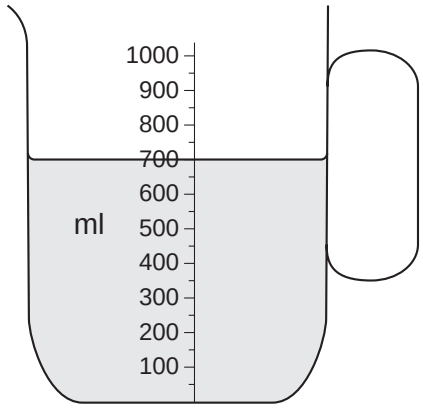
13 Charlotte goes to sleep at 7:30 pm.
She wakes up at 6:30 am the next morning.

For how many hours does she sleep?

..... hours [1]

Page Total

14 This jug contains water.



Victoria pours 50 ml of this water into a drink.
How much water is left in the jug?

.....ml [1]

15 A concert hall has 49 rows of seats.
There are 34 seats in each row.

Estimate the number of seats in the concert hall, by rounding these numbers to the nearest ten.

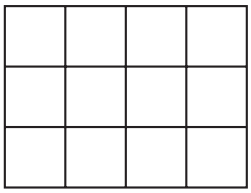
..... [1]

16 Draw a line which measures 57 mm.
You **must** use a ruler.

[1]

Page Total

17 Ali, Bob and Tim share a chocolate cake.
The cake is cut into 12 pieces.



Ali eats $\frac{1}{4}$ of the cake.

Bob eats $\frac{1}{3}$ of the cake.

Tim eats $\frac{1}{6}$ of the cake.

(a) Shade the cake to show how much Ali eats.

[1]

(b) Who eats the least cake?

..... [1]

(c) How many twelfths of the cake does Bob eat?

$\frac{\square}{12}$ [1]

18 Calculate 35.42 – 23.37

..... [1]

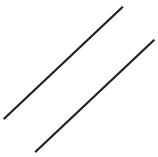
Page Total

19 Complete these calculations.

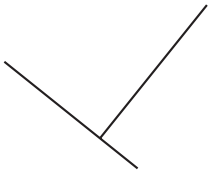
(a) 4.68 x 100 = ☐ [1] ☐

(b) 5700 ÷ 1000 = ☐ [1] ☐

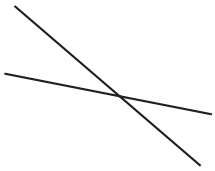
20 Here are 3 pairs of lines.



Pair 1



Pair 2



Pair 3

Complete these sentences.

Pair ..... are perpendicular lines.

Pair ..... are parallel lines. [1] ☐

21 (a) Calculate:

3.5 x 7

..... [1] ☐

(b) Calculate:

8.4 ÷ 6

..... [1] ☐

Page Total ☐

22 Here is a bus timetable to Heathrow Airport, UK.

Walton-on-Thames	0447	0527	0557	0627	0657
Shepperton	0452	0532	0602	0632	0702
Sunbury	0458	0538	0608	0638	0708
Ashford	0513	0553	0623	0653	0723
Stanwell	0515	0555	0625	0655	0725
Heathrow Terminal 4	0520	0600	0630	0700	0730
Hatton Cross	0524	0604	0634	0704	0734
Harlington	0533	0613	0643	0713	0743
Heathrow Airport Central	0540	0620	0650	0720	0750

Priyanka lives in Shepperton.
She needs to catch a bus to be at Heathrow Airport Central by 7 am.

(a) What is the **latest** time she can leave Shepperton to arrive on time?

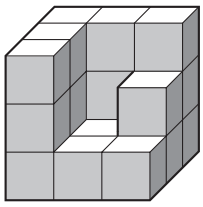
..... [1]

(b) How many minutes is the bus journey from **Heathrow Terminal 4** to **Heathrow Airport Central**?

..... minutes [1]

23 Meri is making a large cube from smaller cubes. She has completed 3 faces.

 represents the smaller cubes



What is the least number of smaller cubes she needs to complete her large cube?

..... [1]

Page Total

24 I am thinking of a number.
Two-thirds of my number is the same as one quarter of fifty-six.

What is my number?

..... [2]

25 A group of children take a Maths test and a Science test.
Their results are shown in the table.

Name	Score in Maths test	Score in Science test
Lena	6	7
Suzanah	8	10
Serene	5	6
Jasmine	10	9
Dawn	9	9
Chris	8	10
Lee	9	10
Eric	7	9
Tan	10	9
Fong	10	10

(a) What is the range for the **Maths test scores**?

..... [1]

(b) What is the modal score for the **Maths test**?

..... [1]

(c) What is the median score for the **Science test**?

..... [1]

Page Total

26 Here is a magic square.
Each row, column and diagonal add up to the same number (the magic number).

18	8	
	12	20
14	16	6

(a) Fill in the missing numbers.

[1]

(b) What is the magic number?

..... [1]

Page Total

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

6652099981

MATHEMATICS **0842/02**

Paper 2 **May/June 2010**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

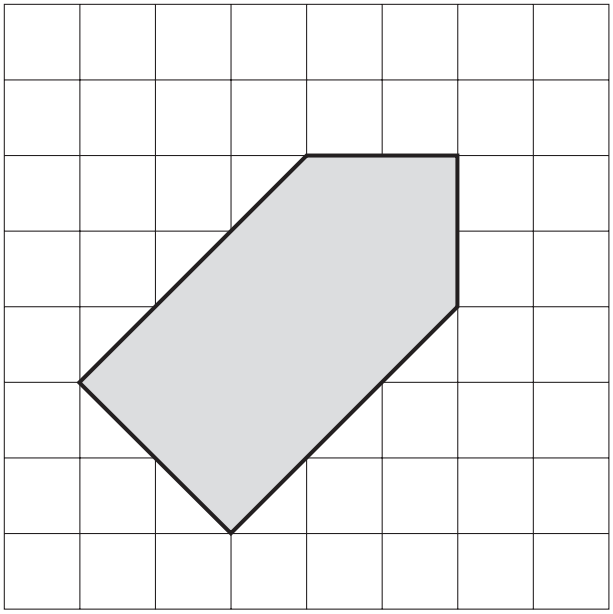
For Examiner's Use	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
Total	

This document consists of **13** printed pages and **3** blank pages.

1 Circle the even numbers.

140 209 238 345 499 [1]

2 Tick (✓) **all** the right angles in this pentagon.



[1]

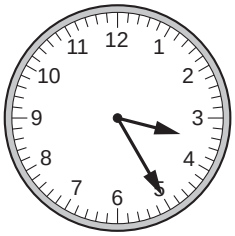
3 Calculate

457 – 238

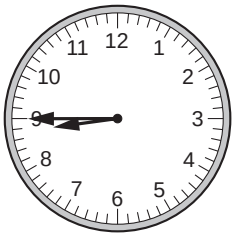
..... [1]

Page Total

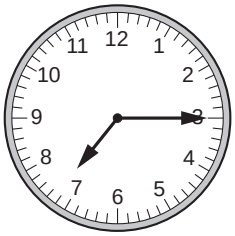
4 Match each clock to the correct digital time.



8:45



7:15



3:25

[1]

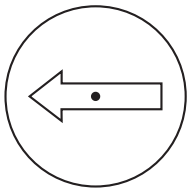
5 Match the operation with the symbol.
The first has been done for you.

difference	+
product	−
share	×
sum	÷

[1]

Page Total

6 Manjula turns this arrow through 4 right-angles.



Through how many degrees has she turned the arrow?

..... ° [1]

7 Hendrina is 12 years old.
Here is a picture of Hendrina and some of her family.

Hendrina

sister

baby brother

cousin

(a) Hendrina is 10 years younger than her sister.

How old is her sister?

..... [1]

(b) Hendrina is 10 years older than her baby brother?

How old is her baby brother?

..... [1]

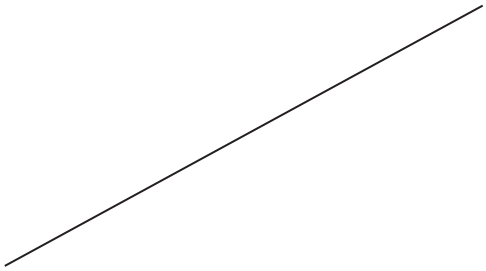
(c) Hendrina is 1 year older than her cousin.

How old is her cousin?

..... [1]

Page Total

8 **(a)** Measure the length of this line.
Give your answer to the nearest millimetre.



.....mm [1]

(b) Draw a straight line which measures 48mm.

[1]

9 Complete this calculation in two different ways. Write only one digit in each box.

☐ ☐ x ☐ = 324 [1]

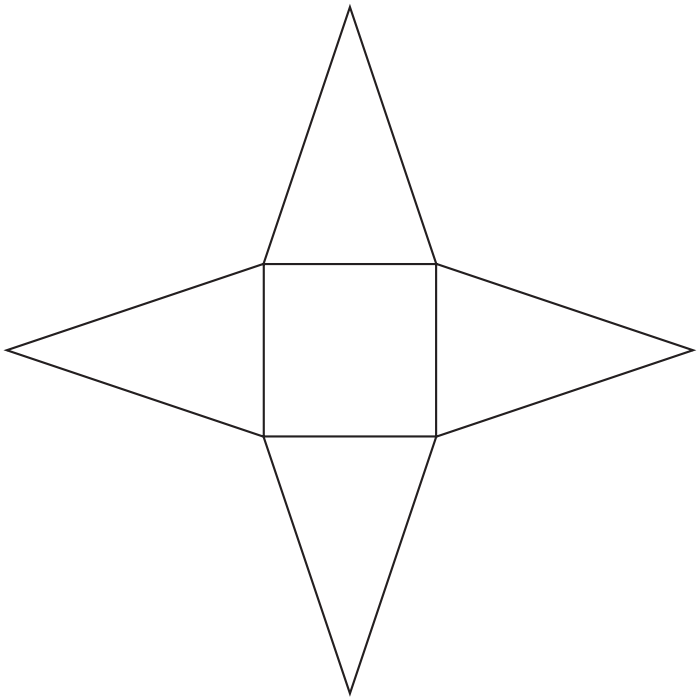
☐ ☐ x ☐ = 324 [1]

Page Total

10 Tick (✓) the solid shape made by this net.

tetrahedron	square pyramid	triangular prism	cone

[1]



11 In this table, the numbers in each row are equivalent.
Complete the table.

Fraction	Decimal	Percentage
$\frac{1}{4}$	0.25	
$\frac{1}{2}$		50%

[2]

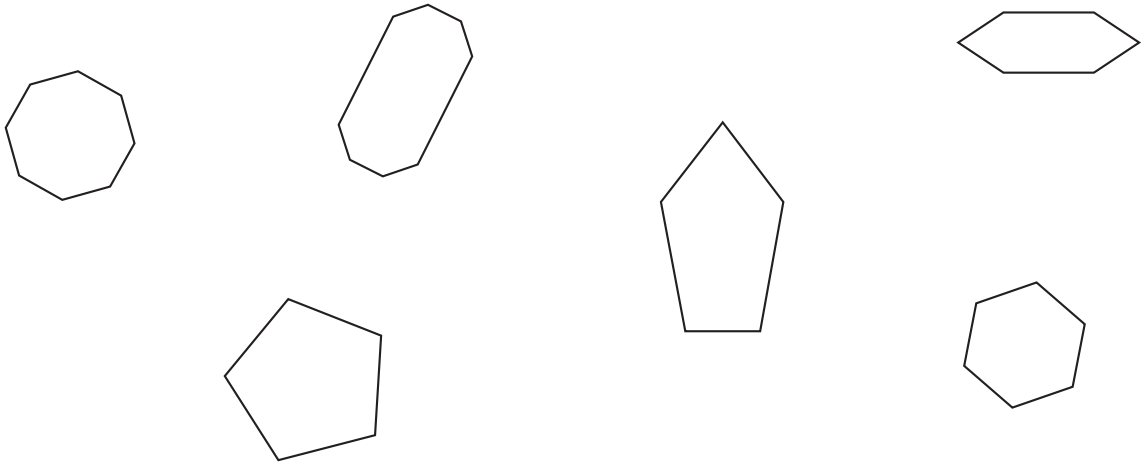
Page Total

12 Write in the missing number.

☐ x 8 = 680

[1]

13 Tick (✓) all the **regular** shapes.



[1]

14 Calculate 469 ÷ 3

☐ remainder ☐

[1]

Page Total

15 The cost of theatre tickets are shown in the table.

	Afternoon Show	Evening Show
Adult	$32	$36
Child	$18	$22

(a) How much does it cost for 2 adults and 1 child to go to an afternoon show?

$ ..... [1]

(b) Andrew spends $196 on tickets for an evening show.
How many adult and child tickets does he buy?

Adult tickets ..... Child tickets ..... [2]

16 A jacket costs $40.
In the sale there is 25% off the jacket.

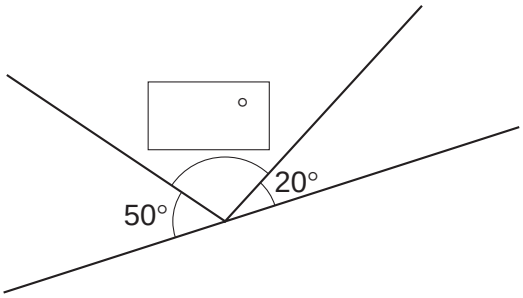
What does the jacket cost now?

Show your working out.

$ ..... [2]

Page Total

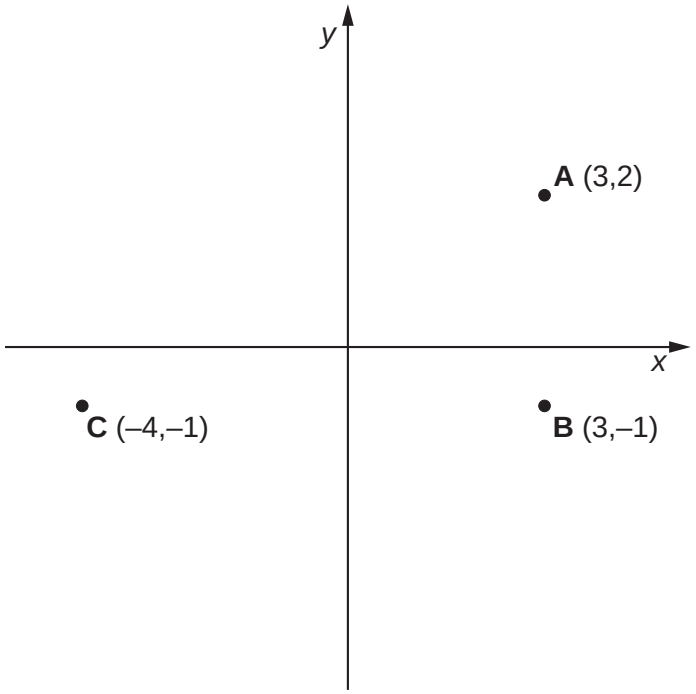
17 Calculate the value of the missing angle.



NOT TO SCALE

[1]

18 A, B and C are three vertices of a rectangle.



(a) What are the co-ordinates of the fourth vertex?

, (....., ...) [1]

(b) The rectangle is rotated 90° clockwise at the point (0,0).
What are the new co-ordinates of point A?

, (....., ...) [1]

Page Total

19 Put brackets in the calculation to make it correct.

3 x 5 + 2 x 4 = 84 [1]

20 The time zone in London, UK is called GMT.
The table below shows how to calculate times in some parts of the USA.

Ohio has a time zone of GMT –5, which means the time is 5 hours **before** London.

Part of USA	Time zone
New Mexico	GMT –7
New York	GMT –5
North Carolina	GMT –5
North Dakota	GMT –6
Ohio	GMT –5
Oklahoma	GMT –6
Oregon	GMT –8

Given that the time in London is 11 pm, complete these sentences.
The first has been done for you.

The time in Ohio is 6 pm.

The time in New Mexico is ..... pm

The time in Oregon is ..... pm [1]

Page Total

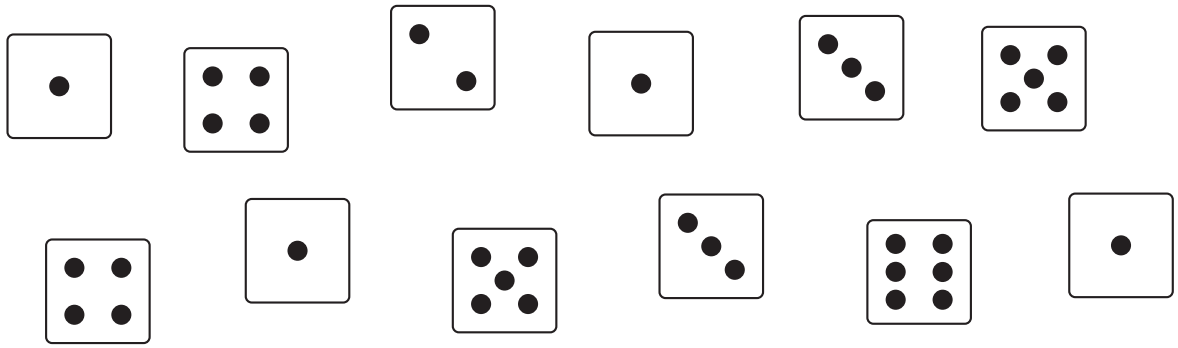
21 Find all the prime factors of 42.

..... [1]

22 Write this fraction in its simplest form.

$$\frac{9}{27} = \text{.....}$$ [1]

23 Kean rolls a dice twelve times.



(a) Calculate the mean score.

..... [1]

(b) What is the modal score?

..... [1]

Page Total

24 Put these numbers in order of size starting with the **largest**.

3.454 3.544 4.534 4.345

....

largest **smallest** [1]

25 Hafiz has $25.
His sister has $\frac{1}{5}$ as much as Hafiz.
His father has 40% as much as Hafiz.

Calculate how much money Hafiz, his sister and his father have in total.

You **must** show all your working.

Total = $ .....

[3]

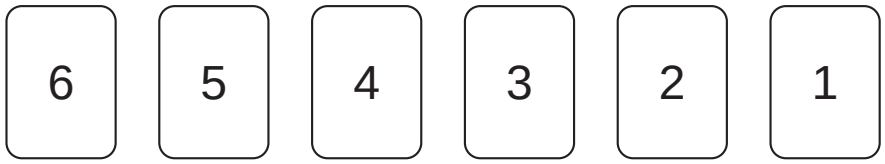
26 Waleed thinks of a number.
He subtracts 4.5 and multiplies the result by 12.
His answer is 32.4.

What is his number?

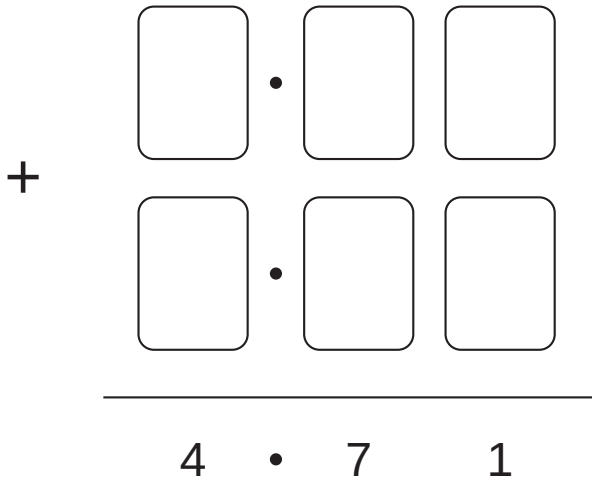
..... [1]

Page Total

27 Here are some number cards.



Use all six number cards **once** to make this calculation correct.



[1]

Page Total

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

5752976870

MATHEMATICS **0842/03**

Paper 3: Student Answer Sheet **May/June 2010**

approx. 15 minutes

No Additional Materials are allowed.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.
One mark will be awarded for each question answered correctly.

This document consists of **2** printed pages.

UNIVERSITY of CAMBRIDGE International Examinations

Write your answers here.

1. **30,50**
2. **boys** **94**
3.
4.
5. **years** **102**
6.
7. **58**
8.
9. **14**
10. **650** **700** **610** **710** **750**

Write your answers here.

11. **koalas**
12. **$** **305**
13. **ml**
14.
15. **120 ÷ 5 = 24**
16. **123 + 684 = 807**
17.
18. **17.6 ÷ 1.1 = 16**
19. **cm**
20.

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CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

* 6 7 4 4 6 1 9 4 0 6 *

MATHEMATICS **0845/01**

Paper 1 **April 2012**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **17** printed pages and **3** blank pages.

UNIVERSITY of CAMBRIDGE International Examinations

1 **(a)** Find the total of 165 and 59.

..... [1]

(b) Find the difference between 59 and 165.

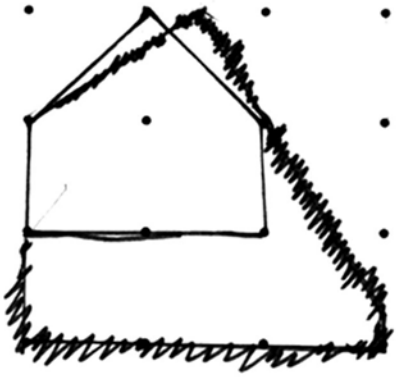
..... [1]

2 Write the **same** digit in both boxes to make this sum correct.

	4	+	3		= 100

[1]

3 Here is a spotty grid.



Join some of the dots to make a pentagon with exactly three right angles.

[1]

4 Here is a sequence of numbers.

705	→	805	→	905	→

What is the next number in the sequence?

..... [1]

5 Here are some signs.

$=$ $<$ $>$

Write the correct sign in each box.
You can use each sign more than once.

4×4 ☐ 2×8

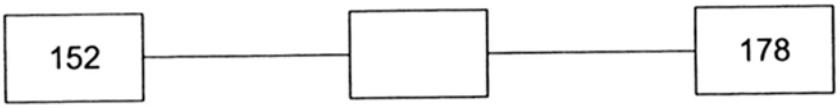
8×7 ☐ 9×6

3×8 ☐ 5×5

6×4 ☐ 4×6

[2]

6 What number is half way between 152 and 178?



[1]

7 Here is a calendar for **August 2000**.

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Mark was born on **29 July 2000**.

On what day of the week was he born?

..... [1] 0

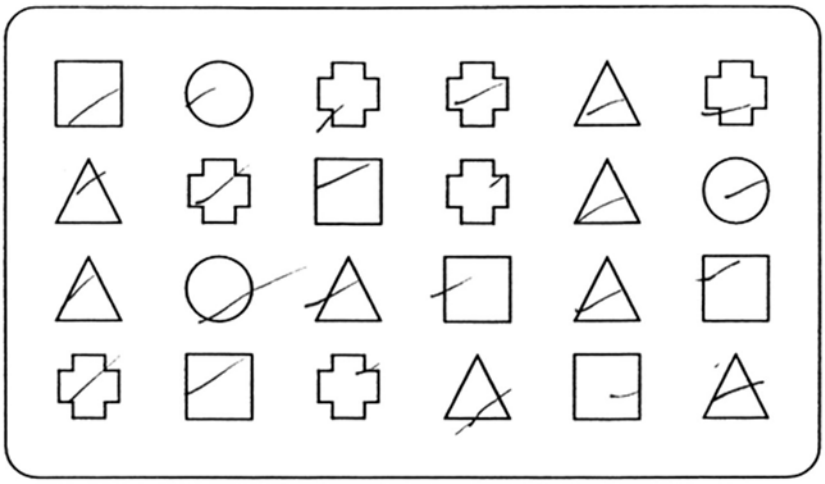
8 Write in the missing number.

2500 ÷ ☐ = 100

[1] 1

①

9 Here is a set of shapes.



Complete the frequency table to show how many of each shape there are.

Shape	Frequency
	6
	3
	

[2]

10 Chris is using a grid to work out the 8 times table.

Number	1	2	3		16
double	2	4	6		
double	4	8	12		
double	8	16	24		

Use the grid to help you work out this calculation.

$16 \times 8 =$ ☐ [1]

11 Here is part of a number grid.

37	38	39
47	48	49
57	58	59

Circle the number that is a multiple of 7.

[1]

12 Here is a clock face showing a digital time.

15 : 54

What time will the clock face show 50 minutes later?

:

[1]

13 Here is a place value chart showing the number 64.

10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

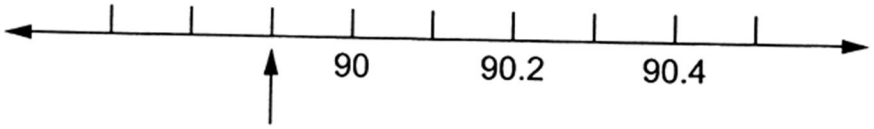
Here is a larger place value chart. Shade it to represent the number

Forty five thousand and forty-five

100 000	200 000	300 000	400 000	500 000	600 000	700 000	800 000	900 000
10 000	20 000	30 000	40 000	50 000	60 000	70 000	80 000	90 000
1 000	2 000	3 000	4 000	5 000	6 000	7 000	8 000	9 000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

[1]

14 What number is the arrow pointing to on this number line?



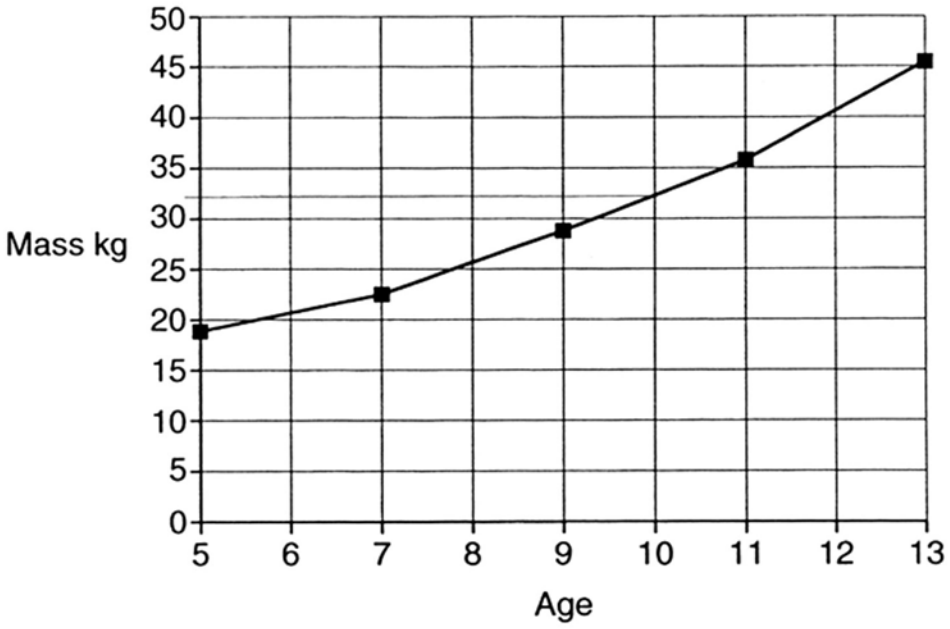
..... [1] 0

15 Write in the missing number.

$0.85 + \square = 1$

[1] 1

16 Here is a line graph showing how Tarik's mass increases as he gets older.



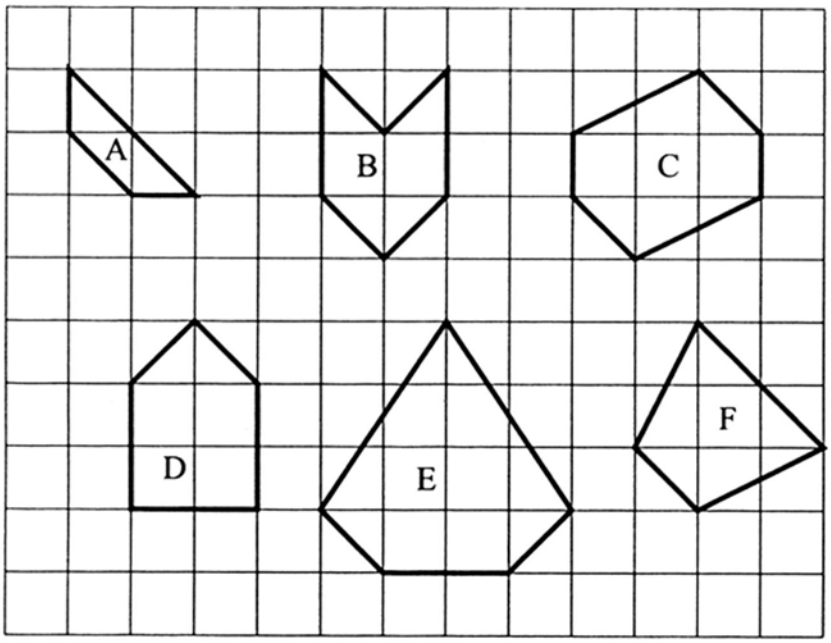
(a) What was his mass on his 10th birthday?

..... kg [1] 0

(b) What is the difference in his mass between age 6 and age 12?

..... kg [1] 1

17 Here are six shapes on a grid.



(a) Write the letters of the **two** shapes which are pentagons.

..... [1] *I*

(b) Write the letters of the **two** shapes which contain at least one pair of perpendicular lines.

..... [1] *0*

18 Calculate.

$962 \div 26 =$

..... [1]

(2)

19 Here are three digit cards.

5	6	7

Use each card **only once** to make these statements correct.

4	9	<		2

5	2	>		0

7	5	<		7

[2] 2

20 Here are some number cards.

A	Three hundred and four

B	Forty-three

C	Three hundred and forty

D	Thirty-four

(a) Write the letter of the card that gives the answer to 34 × 10.

..... [1] 1

(b) Write the letter of the card that gives the answer to 340 ÷ 10.

..... [1] 1

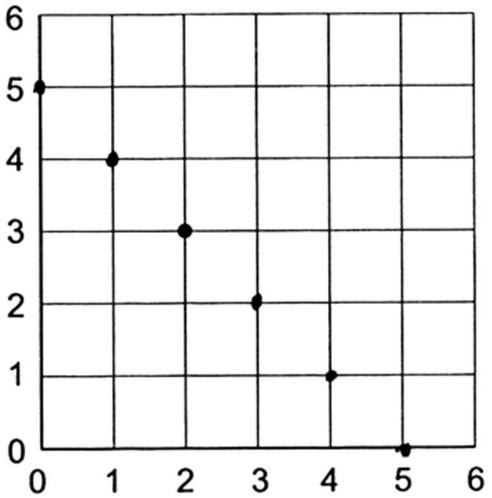
21 Write in the missing numbers.

7.7 → to the nearest whole number → ☐

10.25 → to the nearest whole number → ☐

[2] 2

22 Plot **five** more points whose co-ordinates have a sum of 5.
(2, 3) has been done for you.



[2]

(4)

23 Here are five angle cards.

A	B	C	D	E
60°	a right angle	half a right angle	half a turn	120°

Write each card in order from smallest to largest.

smallest largest

[1]

24 Here are four measurements.

20 cm	1 m	30 mm	2.5 cm

Order the measurements from smallest to largest.

smallest largest

[1]

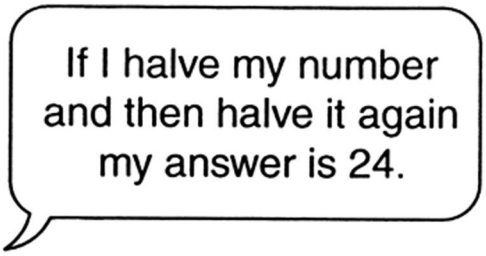
25 Complete this chart showing information about a rectangle.

Length (cm)	Width (cm)	Area (cm²)	Perimeter (cm)
	2		16

[2]

26 Anna is thinking of a number.

She says:



What is Anna's number?

..... [1]

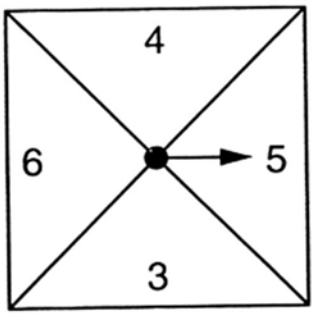
27 Here is a number grid.

74	75	76
84	85	86
94	95	96

Circle the number that can be divided by 7 with a remainder of 1.

[1]

28 Pascal has a spinner.

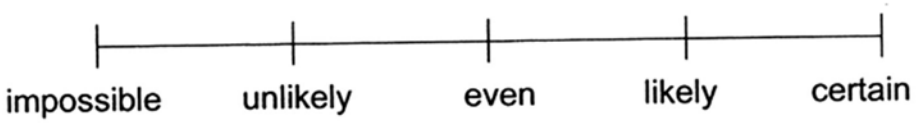


(a) What is the chance of spinning a 2?
Circle the correct answer.

impossible **unlikely** **even** **likely** **certain**

[1]

(b) What is the chance of spinning a number less than 10?
Mark your answer with an arrow (↓) on the probability scale below.



[1]

29 Noah is thinking of a number.

He says:

> It is a multiple of 25.
> It is even.
> It is greater than 550 but less than 700.
> It is not 600.

What number is Noah thinking of?

..... [1]

* 1609583901 *

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CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

MATHEMATICS **0845/02**

Paper 2 **April 2012**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

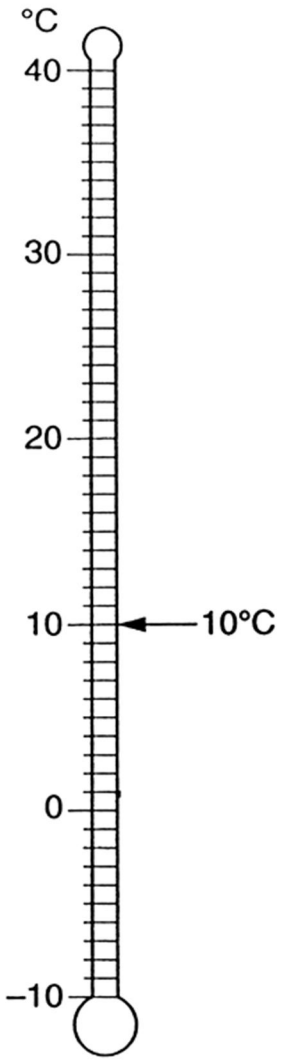
DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **17** printed pages and **3** blank pages.

1 Here is a thermometer. The arrow is pointing to 10 °C .



Draw an arrow on the thermometer pointing to –1 °C .

[1]

2 John-Paul has 6 number cards.

3	4	5	6	7	8

Use each card **only once** to complete these statements.

□ × □ = a multiple of 10

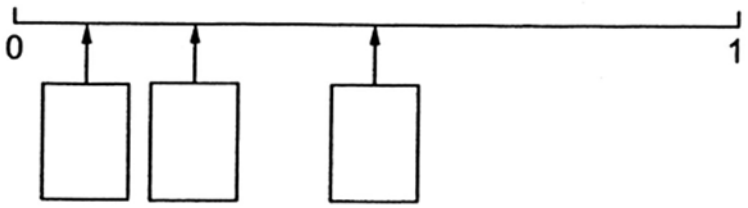
□ × □ = a number between 40 and 45

□ × □ = a multiple of 6 [2] 2

3 Here are three fractions.

$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{10}$

Write each fraction in the correct box on the number line.

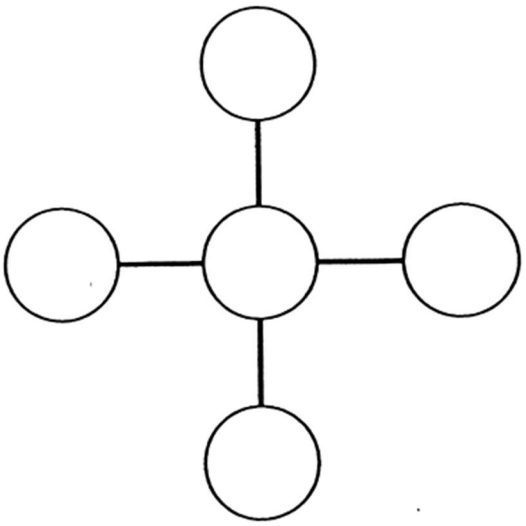


[1]

4 Here are five number discs.

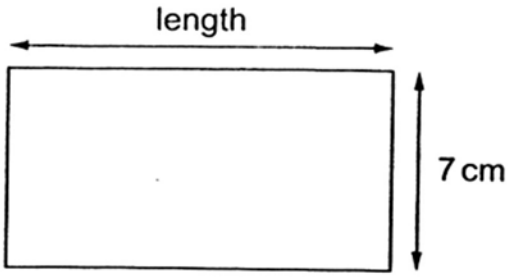
Use each disc **once** to complete the cross pattern.

The total going across must be the same as the total going down.



[1]

5 Here is a rectangle. It is **twice** as long as it is wide.

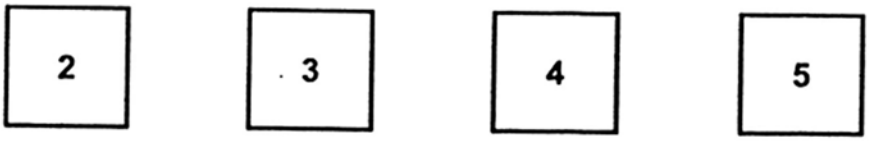


NOT TO SCALE

What is the **perimeter** of the rectangle?

..... cm [1]

6 Here are four digit cards.



Anna chooses three of these cards to write three-digit numbers.

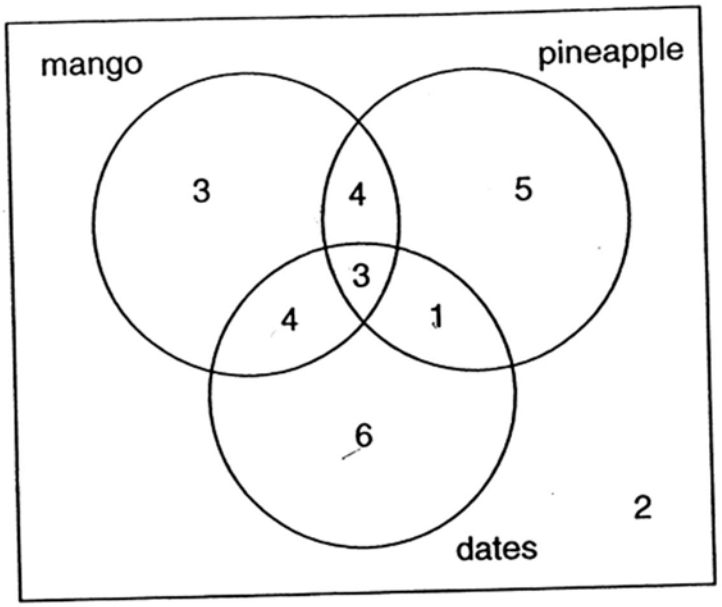
Write **all** the three-digit numbers that Anna could make between 350 and 450.

.....

..... [2]

7 Fatima asked the students in her class which fruits they enjoy eating.

The Venn diagram shows the results of her survey.



(a) How many students enjoy both mangoes and pineapples?

.....

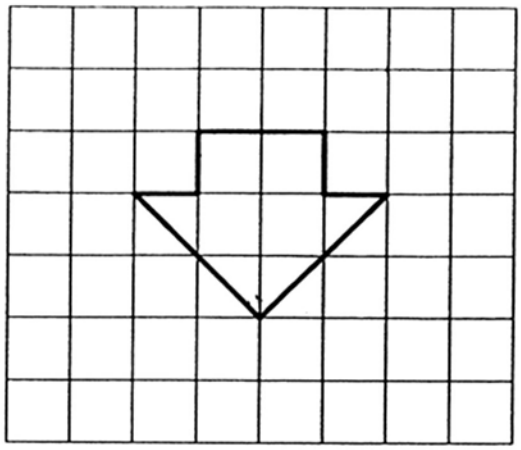
[1]

(b) How many students took part in the survey?

.....

[1]

8 Here is a shape.



How many of the inside angles of the shape are right angles?

..... [1]

9 Put these numbers in order starting with the **largest**.

340 –620 380 –93 –175

....

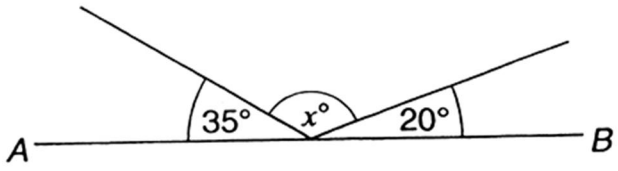
largest **smallest** [1]

10 Write the **same** number in both boxes to make this calculation correct.

$\square \times \square = 64$

[1]

11 AB is a straight line.



NOT TO SCALE

Calculate the size of angle x.

Do not use a protractor (angle measurer).

..... ° [1]

12 What is the missing number?

☐ ÷ 5 = 24

[1]

13 Here are four statements about odd and even numbers.
One statement **must** be wrong.

Put a cross (×) in the box by the **wrong** statement.

The sum of three even numbers is 16 ☐

The sum of three odd numbers is 20 ☐

The sum of two odd numbers is 10 ☐

The sum of two even numbers is 18 ☐ [1]

14 **(a)** Write this mixed number as an improper fraction.

$5\frac{3}{4} =$ .....

[1]

(b) Write this improper fraction as a mixed number.

$\frac{17}{5} =$ .....

[1]

15 Here are 7 numbers.
Put a ring around **three** numbers that add up to 200.

2 **4** **8** **16** **32** **64** **128**

[1]

16 Look at these four calculations.

One is **wrong**.

9.5 × 3 = 28.5	3.9 × 9 = 35.1	2.6 × 4 = 12.4	4.2 × 6 = 25.2

Put a cross (×) through the incorrect calculation.

[1]

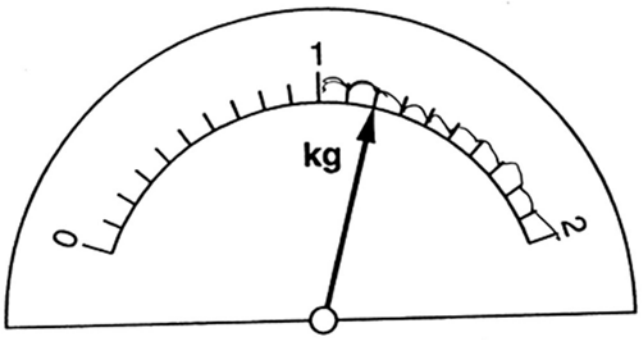
17 Here are four fractions.

$\frac{1}{50}$ $\frac{50}{100}$ $\frac{100}{50}$ $\frac{1}{5}$

Which fraction is equivalent to 0.5?

..... [1]

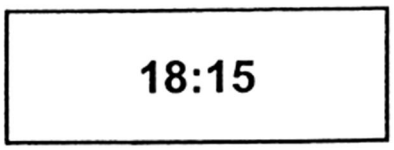
18 Here is a scale showing the mass of a bunch of bananas.



What is the mass of the bananas?

..... kg [1]

19 Anna goes to see a film. The digital clock shows the time the film starts.



The film ends at 8:50 pm.

How long does the film last?

..... [1]

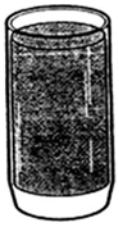
20 Here is a sequence of numbers.

Write the missing number in each box.

81, 64, ☐ 36, 25, ☐ 9

[2]

21 A glass holds 225 millilitres of water.



Peter drinks 1.8 litres of water during a day.

How many glasses of water does he drink during the day?

..... [1]

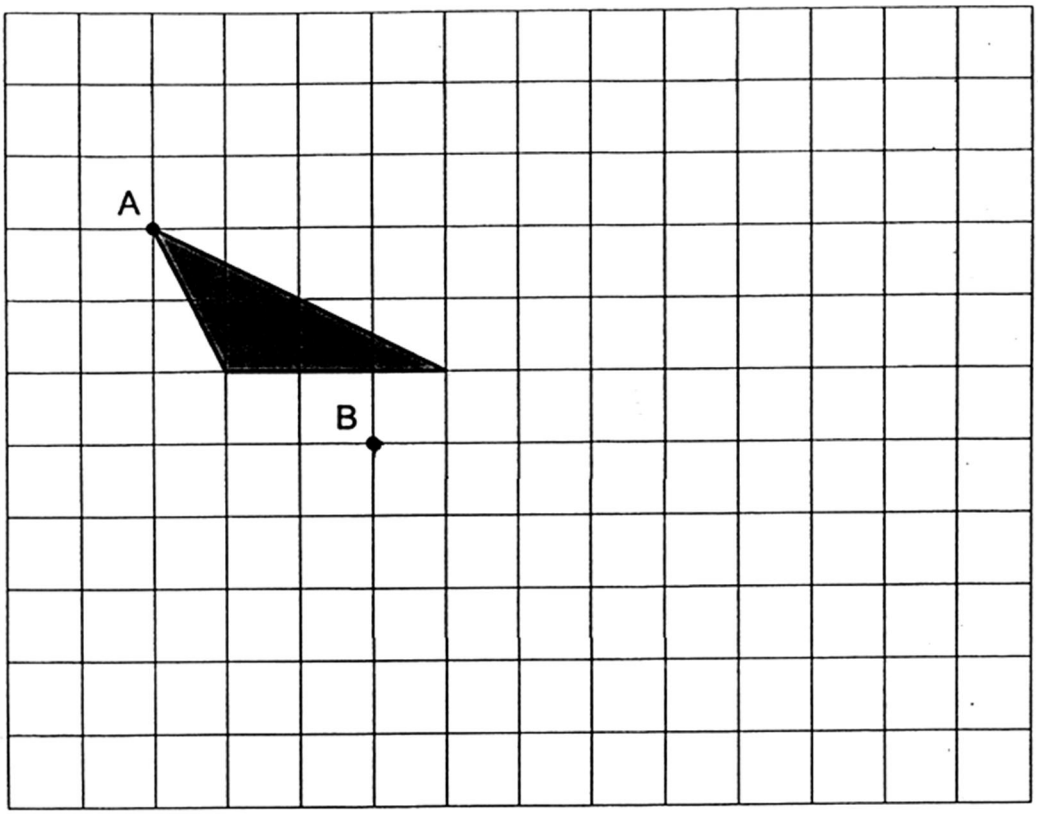
22 Lewis is 0.9 metres tall.
Tim is 0.15 metres taller than Lewis.

How tall is Tim?

..... metres [1]

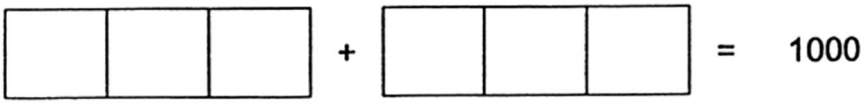
23 Here is a triangle on a square grid.
The triangle is translated so that point A moves to point B.

Draw the triangle at its new location.



[1]

24 Use the digits 3, 5 and 6 only to complete this calculation.
You can use each digit more than once.



[1]

25 Complete the following.

$$35 \times 16 = 70 \times \square$$

[1]

26 Here are four digit cards.

3	5	4	6

Use each of these cards to make a total that is a multiple of 5. Each card must only be used once.

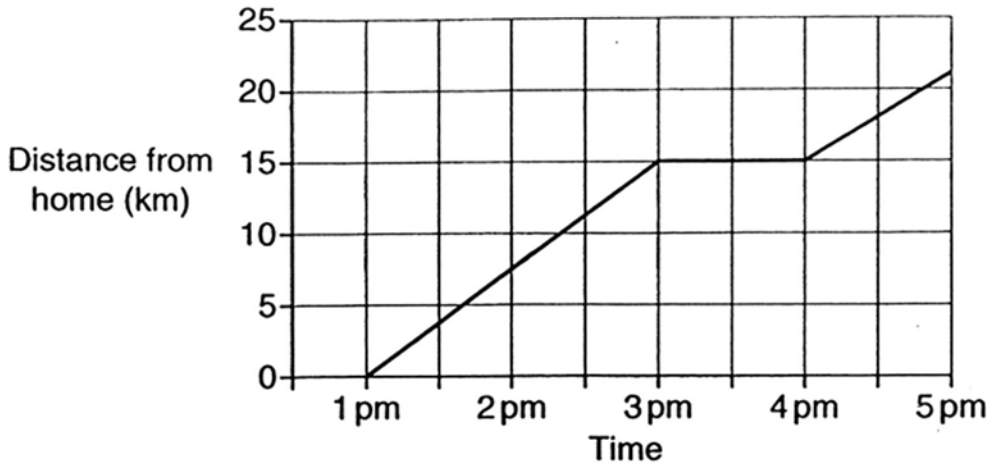
$$\square\square + \square\square$$

[1]

27 What is $\frac{7}{10}$ of 650?

..... [1]

28 The graph shows Hakim's cycle journey between 1 pm and 5 pm.



(a) How far does he travel between 1 pm and 3 pm?

..... km [1]

(b) What might he be doing between 3 pm and 4 pm?

.....

..... [1]

29 William makes a sequence of five numbers.

The first number is 2.
The last number is 14.

His rule is to add the same number each time.

Write in the missing numbers.

2				14

[2]

30 Choose three different **prime numbers** to make this calculation correct.

$\square + \square + \square = 10$

[1]

31 Circle the quadrilateral which has only one pair of opposite parallel sides.

parallelogram **kite** **rhombus** **trapezium** [1]

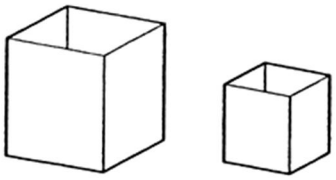
32 Here are four digit cards.

3	4	5	6

Use each digit card once to make the number nearest to 4000.

[1]

33 Victoria has 2 boxes.



One box is three times heavier than the other.
The **total** mass is 500 grams.

What is the mass of each box?

..... grams and ..... grams [1]

* 2132041001 *

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Cambridge Primary Checkpoint

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

* 4 3 0 7 5 7 5 6 2 *

MATHEMATICS **0845/01**

Paper 1 **October 2012**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

For Examiner's Use	
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Total	

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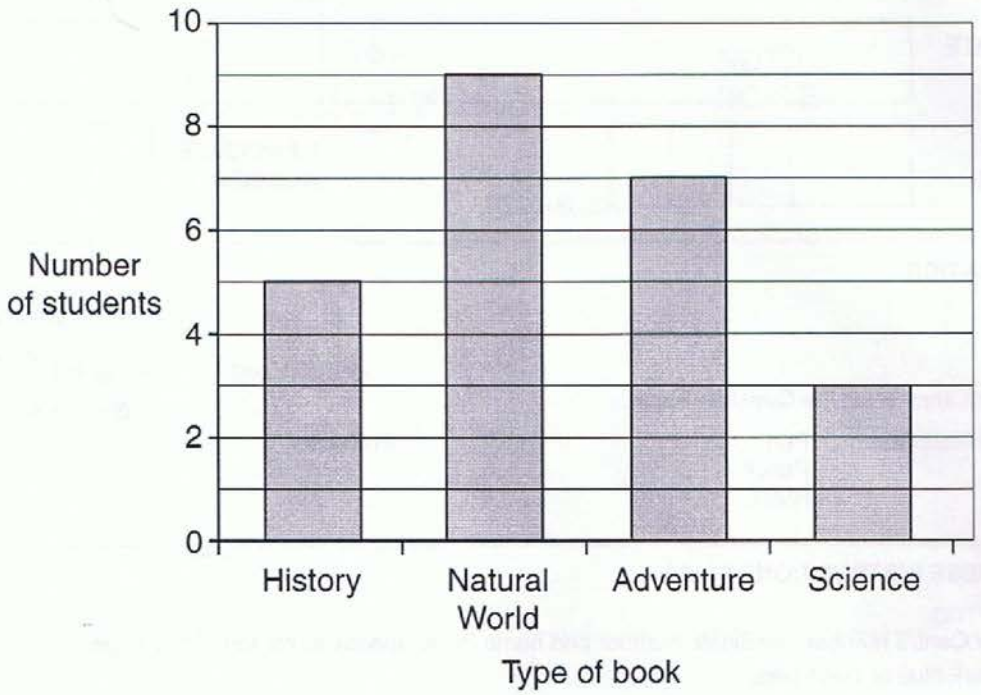
[Turn over

1 Class 6 carry out a survey to find out which is their favourite type of book. The graph shows the results of the survey.



(a) Two girls chose Adventure books. How many boys chose Adventure books?

..... [1]

(b) How many students took part in the survey?

..... [1]

2 A box contains 30 chocolates.

How many chocolates are in 6 of these boxes?

..... chocolates [1]

3 **(a)** The numbers in this sequence go up in steps of **100**

Write in the two missing numbers.

1360, ☐ 1560, 1660, ☐ [1]

(b) Write in the missing numbers.

☐ → double → 1600 → double → ☐ [1]

4 Anton, Sanjiv and Kirsty take part in an activity weekend.

They complete the chart to show the activities they enjoy.

Activity	Anton	Kirsty	Sanjiv
pony trekking		✓	✓
parachuting	✓		✓
archery		✓	
orienteering	✓		
sailing	✓	✓	✓

(a) Which is the most popular activity?

..... [1]

(b) The following weekend extra activities are included. Anton and Kirsty enjoy abseiling and Sanjiv enjoys canoeing.
Add this data to the chart above.

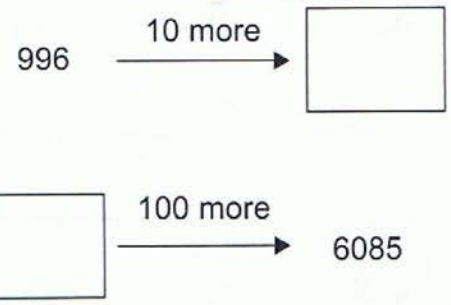
[1]

5 Calculate.

$360 \div 10 =$

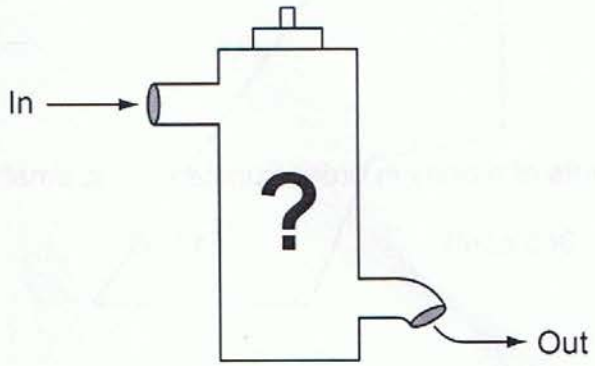
..... [1]

6 Write in the missing numbers.



[2]

7 Here is a number machine.
It carries out the same calculation on each number put into it.



If 36 is put into the machine 6 comes out.
If 54 is put into the machine 9 comes out.

What calculation is the machine carrying out on these numbers?

..... [1]

8 A television programme starts at twenty past nine in the morning.
The programme finishes at 11:05 am.

How long does the programme last?

..... [1]

9 Here are four numbers.

5005 50 005 5 000 005 50 000 005

Put a ring around the number fifty thousand and five.

[1]

10 Write these amounts of money in order from largest to smallest.

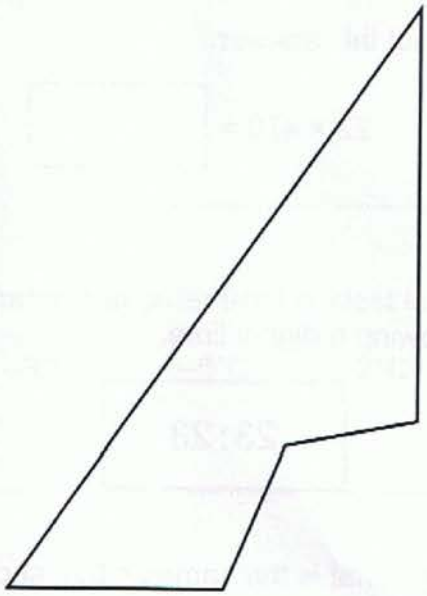
$10.25 365 cents $15.65 1235 cents

....
largest smallest [1]

11 Put a ring around **all** the numbers which are multiples of 25

250 730 675 380 55 [1]

12 Measure the length of the longest line.



..... cm [1]

13 What is 8 squared?

..... [1]

14 Look at this calculation.

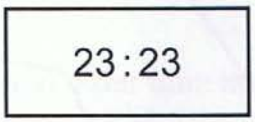
$$23 \times 47 = 1081$$

Use it to help you work out this answer.

$23 \times 470 =$ ☐

[1]

15 Here is a clock face showing a digital time.



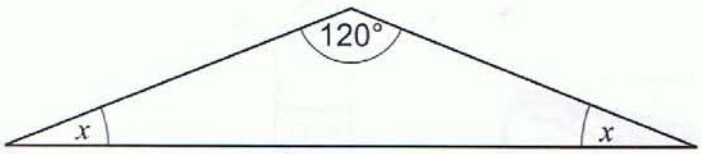
Put a ring around the time that is the same as that shown on the clock.

11:23 am 3:23 pm 11:23 pm

2:23 pm 3:23 am

[1]

16 Here is an isosceles triangle.



NOT TO SCALE

Calculate the size of angle x.

..... ° [1]

17 **(a)** Write these temperatures in order from coldest to warmest.

4°C −3°C −5°C 2°C 1°C

....
coldest warmest [1]

(b) The temperature in Cambridge one night was −4°C.
The next day the temperature had risen to 5°C.

By how many degrees did the temperature **rise**?

..... °C [1]

18 Here are some items for sale in a shop.

Apple
75 cents

Chocolate
$1.47

Water
$1.60

Banana
82 cents

Alfred buys two of these items.
He spends $2.22

Which two items does he buy?

..... and ..... [1]

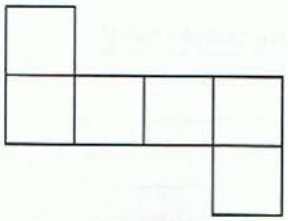
19 Write in the missing number.

$$10 - \square = 6.45$$

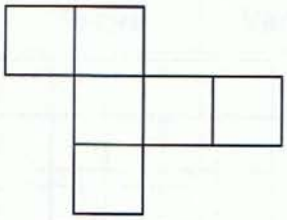
[1]

20 Here are four arrangements of 6 squares.

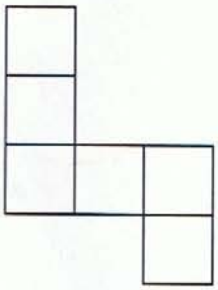
A



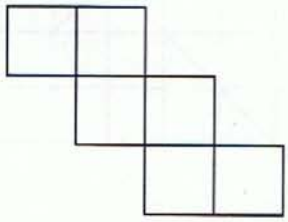
B



C



D



Which arrangement **cannot** be folded to make a cube?

..... [1]

21 Change these improper fractions to mixed numbers.

(a) $\frac{12}{5}$

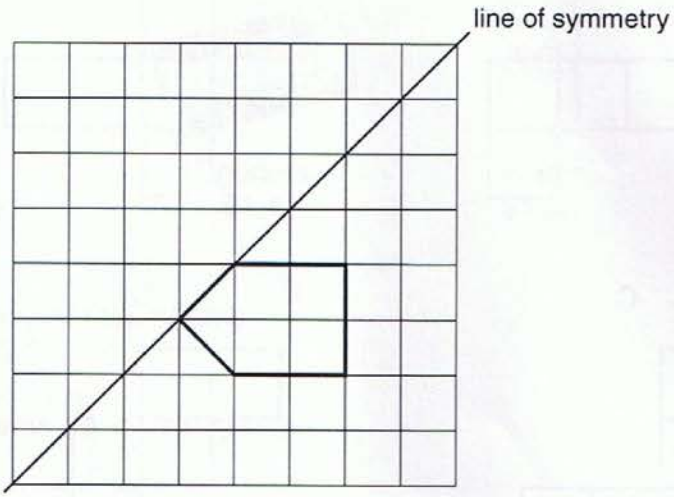
..... [1]

(b) $\frac{21}{8}$

..... [1]

22 The diagram shows a pentagon on a grid.
The pentagon is reflected in the line of symmetry.

Draw the reflection.



[1]

23 Here are four number cards.

A	B	C	D
3.330	33.03	33.3	333

Which card shows the number ten times more than 3.33?

..... [1]

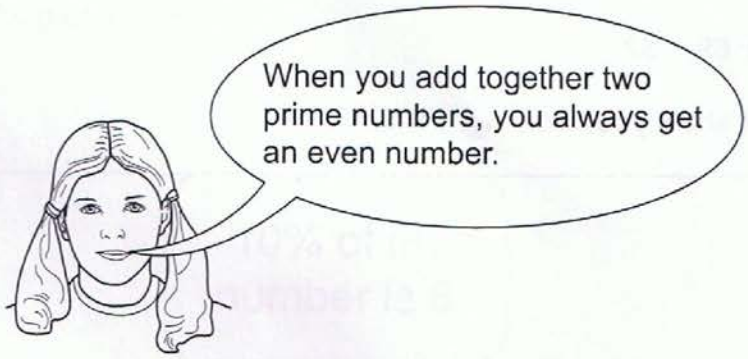
24 This table shows the properties of some 3D shapes.

Complete the table.

	Edges	Faces	Vertices
Cube	12		8
Triangular prism	9	5	
Square-based pyramid		5	5

[2]

25 Katherine says

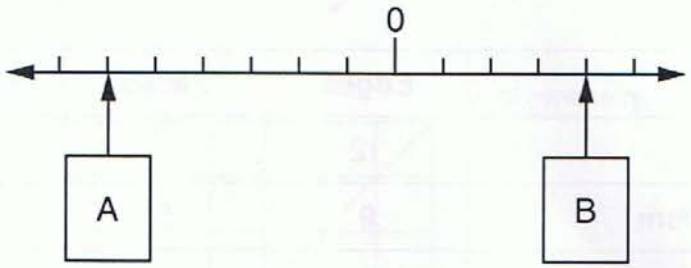


Give an example to show that this statement is false.

.....

[1]

26 Here is part of a number line.



The difference between A and B is 20.

What is the value of B?

..... [1]

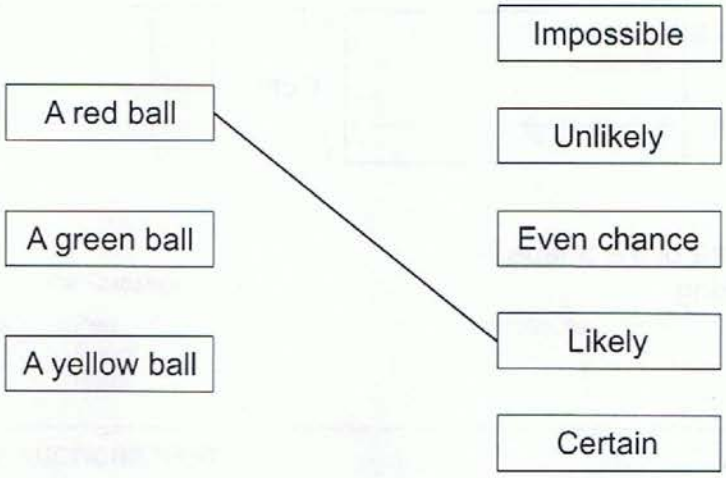
27 Calculate: 69 × 32

You **must** show your working.

..... [2]

28 Peter puts 10 red balls, 4 blue balls and 1 green ball into a bag.
He takes out one ball at random.

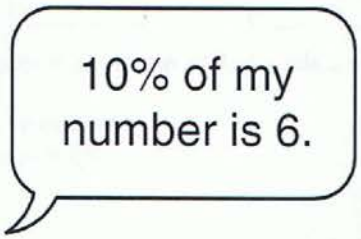
Match each event with its probability.
One has been done for you.



[1]

29 Isabella is thinking of a number.

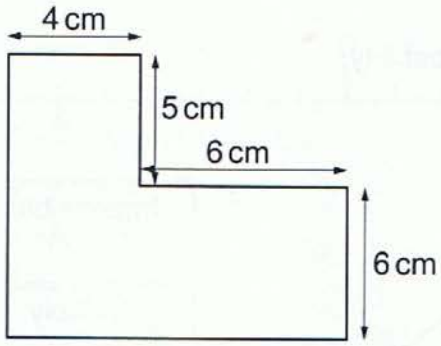
She says



What is Isabella's number?

..... [1]

30 Here is a shape made from two rectangles.



NOT TO SCALE

Work out the area of the shape.
Show your working.

..... cm^2 [2]

31 Write down three **different** factors of 12 that add to 12

☐ + ☐ + ☐ = 12

[1]

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Cambridge Primary Checkpoint

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

MATHEMATICS **0845/02**

Paper 2 **October 2012**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

For Examiner's Use	
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Total	

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[Turn over

1 Here are five number cards.

A	Fifty-six
B	Six thousand, five hundred and fifty-five
C	Six thousand, five hundred and fifty
D	Sixty-five
E	Six thousand, five hundred and five

Write the letter of the card that is the answer to

(a) $650 \div 10$ =

..... [1]

(b) 655×10 =

..... [1]

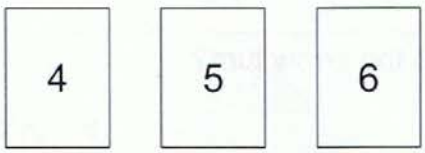
2 Write each of these numbers in the correct place on the grid.

13 **42** **25**

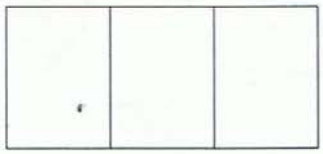
	Less than 20	**Greater than 20**
even		
odd		

[1]

3 Tina has these three cards.



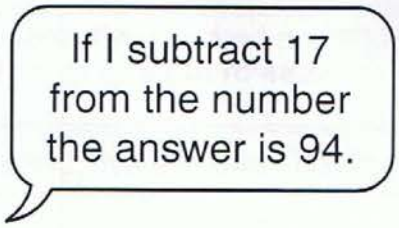
Use each card **once** to make the largest possible number that will divide by 5 exactly.



[1]

4 Anton is thinking of a number.

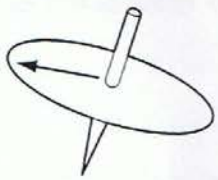
He says



What number is Anton thinking of?

..... [1]

5 John spins the arrow on the spinner one whole turn.



How many degrees does the arrow turn?

..... ° [1]

6 **(a)** Sunilla counts the number of men, women and children attending a concert.

The pictogram shows some of her results.

Women	6
Men	3½
Children	

Key: 1 represents 20 people

She counts 90 children.

Complete the pictogram. [1]

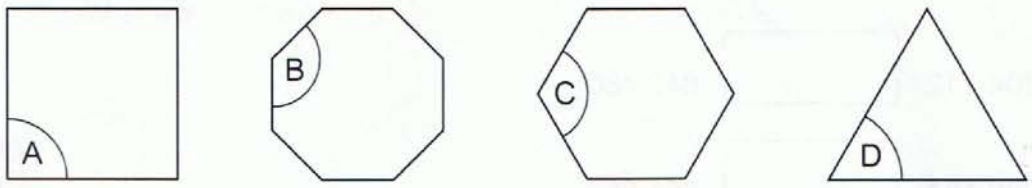
(b) Why would it **not** be a good idea for Sunilla to draw her pictogram using a scale of one symbol to represent 2 people?

.....

..... [1]

7 Here is a set of regular polygons.

List the angles in size order, starting with the smallest.



....

smallest **largest**

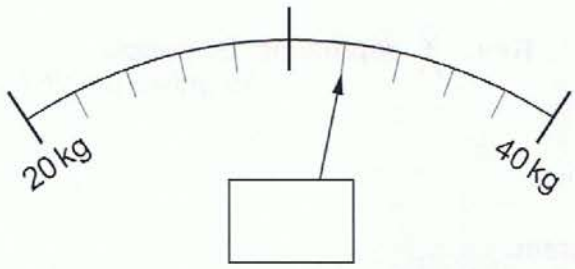
[1]

8 Work out

$16 \times (12 + 5)$

..... [1]

9 Write the number in the box that is shown by the arrow.



[1]

10 Here are two signs.

< >

Choose the correct sign to put in each box.

8 0480 ☐ 8048

804 712 ☐ 840 480

996 157 ☐ 804 800 [1]

11 Write a numerator in the box to make the fractions equivalent.

$$\frac{1}{4} = \frac{\square}{8}$$

[1]

12 Here are four digit cards.

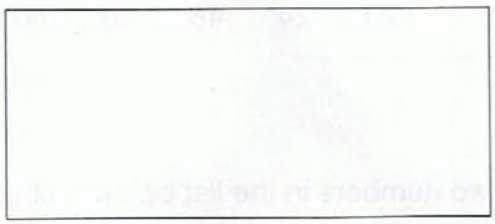
0	1	3	5

Use these cards to complete this calculation. Each card must only be used once.

$$\square\square \times \square\square = 450$$

[1]

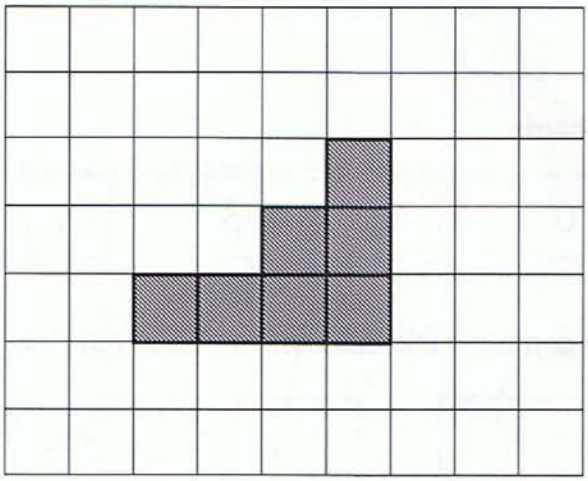
13 Calculate the perimeter of this rectangle.



You must show your working.

..... cm [2]

14 Shade **one** more square on the grid so that the shaded shape has one line of symmetry.



[1]

15 **(a)** Put a ring around **all** the numbers in the list below that are multiples of 8

2 4 8 20 24 46 56 60 [1]

(b) Put a ring around two numbers in the list below that are multiples of both 4 **and** 6

12 16 20 32 36 42 [1]

16 Here is a recipe for a fruit drink for 6 people.

2 pineapples
12 oranges
6 mangoes
1 litre water
[for 6 people]

Kirsty is making a fruit drink for 9 people.

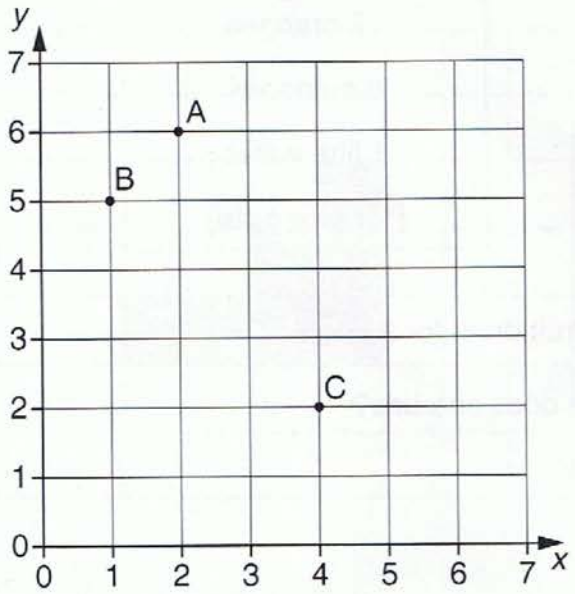
How many oranges does she use?

..... [2]

17 The time in Lahore, Pakistan, is 5 hours ahead of London, England.
If it is 11 am in London, what time is it in Lahore?

..... [1]

18 Three points A, B and C are marked on a grid.



(a) What are the coordinates of point B?

(..... , ...) [1]

(b) A, B and C are three of the vertices of a rectangle. What are the coordinates of the fourth vertex?

(..... , ...) [1]

19 The distance between two towns is 50 miles.

Tick (✓) the best approximation of 50 miles in kilometres.

8 kilometres	☐
30 kilometres	☐
80 kilometres	☐
200 kilometres	☐
500 kilometres	☐

[1]

20 A model of a car is one tenth of the size of the real car.
The model measures 42 cm long.

What is the length of the real car?
Give your answer in centimetres.

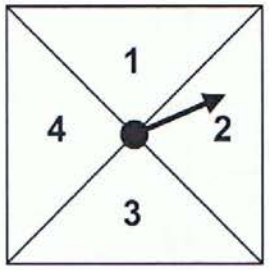
..... cm [1]

21 Write the missing number.

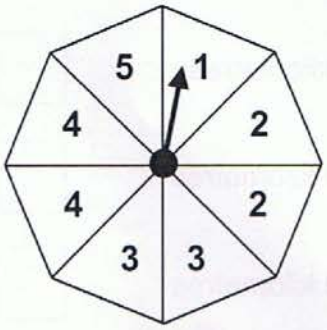
$$\frac{1}{3} + \square = 1$$

[1]

22 Dave has a choice of two fair spinners.
Each spinner is divided into equal sized sections.



Spinner A



Spinner B

Which spinner has the highest probability of landing on the number 2?
Tick (✓) the correct answer.

Spinner A ☐

Spinner B ☐

Both have the same probability ☐

Explain your answer.

.....

[1]

23 Maria has a bag of sweets.
She eats 3 yellow sweets for every 5 red sweets.
She eats 20 red sweets.

How many yellow sweets does she eat?

..... yellow sweets [1]

24 The numbers in this sequence increase by the same amount each time.

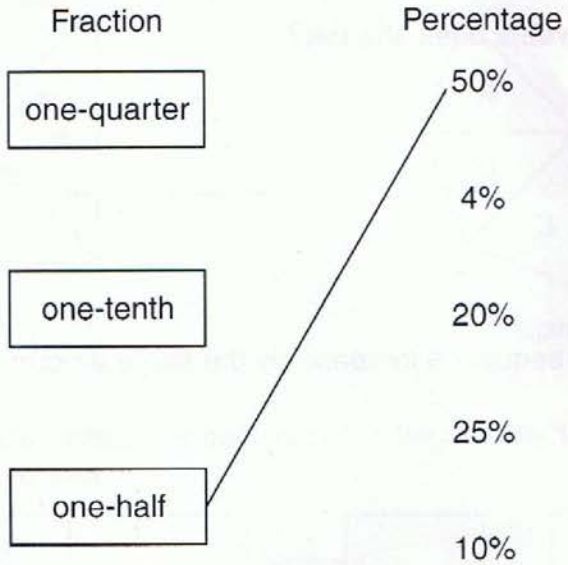
Write in the missing numbers.

1			19

[2]

25 Draw a line to join each fraction to a percentage of the same value.

One has been done for you.



[2]

26 Put a ring around the decimals which are bigger than 0.7

0.08 0.81 0.67 0.9 0.73 [1]

27 Mark with an arrow (↑) the position of the number 3400 on the scale.

[1]

28 A school has 120 children.

$\frac{3}{10}$ of the children have school dinners.

(a) How many children have school dinners?

..... [1]

(b) $\frac{1}{6}$ of the children who have school dinners have the vegetarian option.
How many children have the vegetarian option?

..... [1]

29 A teacher asks students to work out 66 ÷ 5

Tick (✓) all of these answers that are correct.

13 remainder 1 ☐

13.1 ☐

$13\frac{1}{5}$ ☐ [1]

30 Mark asks 8 friends how many pets they have.
His results are shown in the table.

Child	Number of pets
Alice	2
Barbara	1
Claire	1
Darren	5
Elliot	3
Flynn	1
Georgina	2
Harry	1

(a) Find the range of the number of pets.

..... pets [1]

(b) Find the mean number of pets.

..... pets [1]

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge Primary Checkpoint

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

* 2 5 3 5 4 2 3 3 5 7 *

MATHEMATICS **0845/01**

Paper 1 **April 2013**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

For Examiner's Use	
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Total	

This document consists of **16** printed pages.

UNIVERSITY of CAMBRIDGE International Examinations

1 Calculate

$$423 - 298 =$$

..... [1]

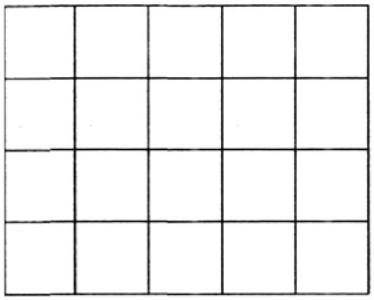
2 Fatima has 72 oranges.

Four oranges are needed to make a glass of freshly squeezed orange juice.

How many glasses of orange juice can she make?

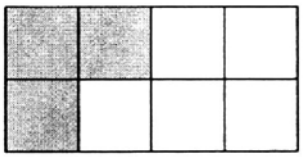
..... glasses [1]

3 **(a)** Shade $\frac{2}{5}$ of the shape.



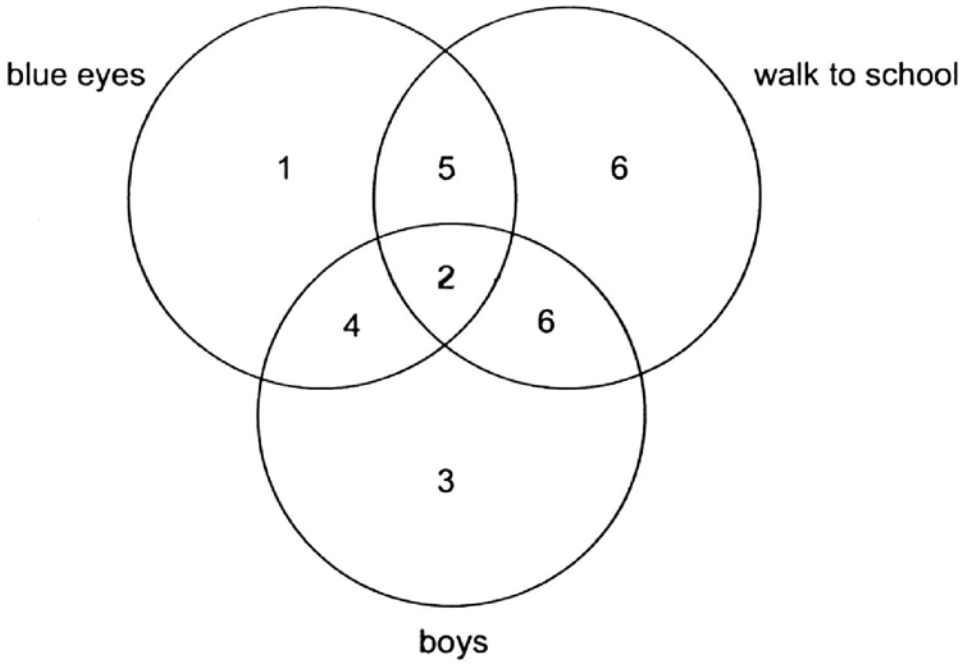
[1]

(b) What fraction of the shape below is shaded?



..... [1]

4 The Venn diagram shows information about the children in a Grade 6 class.



How many children in this class walk to school?

..... children [1]

5 Here is a number fact.

$14 \times 37 = 518$

Use this fact to decide whether these calculations are true or false.

$518 \div 37 = 14$ True ☐ False ☐

$37 \div 518 = 14$ True ☐ False ☐ [1]

6 Write **all** the missing numbers in this multiplication grid.

×			
	42	48	54
	49		63
8		64	72

[2]

7 A box contains 30 chocolates.

How many chocolates are in 6 of these boxes?

..... chocolates [1]

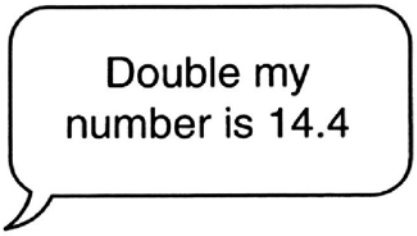
8 Draw a line 68 mm long.

You must use a ruler.

[1]

9 Fatima is thinking of a number.

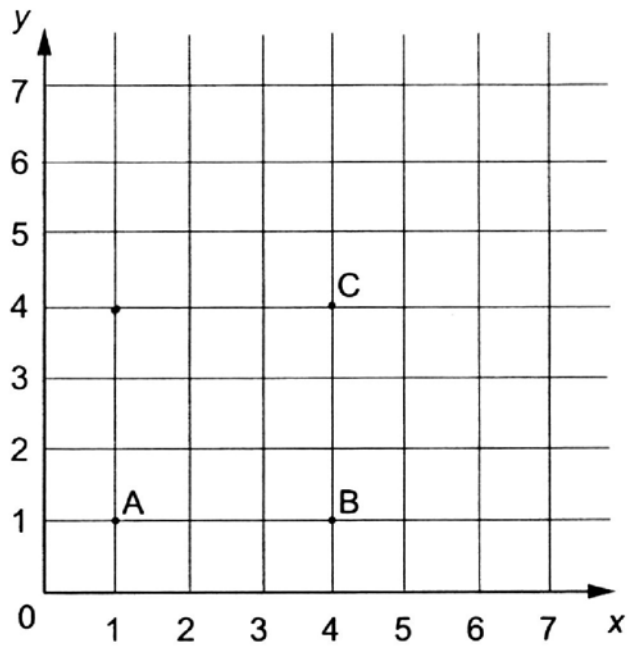
She says



What number is Fatima thinking of?

..... [1]

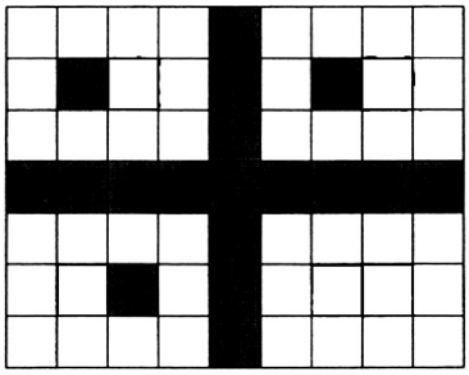
10 A, B and C are three vertices of a square.



What are the co-ordinates of the fourth vertex?

(..... , ...) [1]

11 Shade 5 more squares so that this shape has 2 lines of symmetry.



[1]

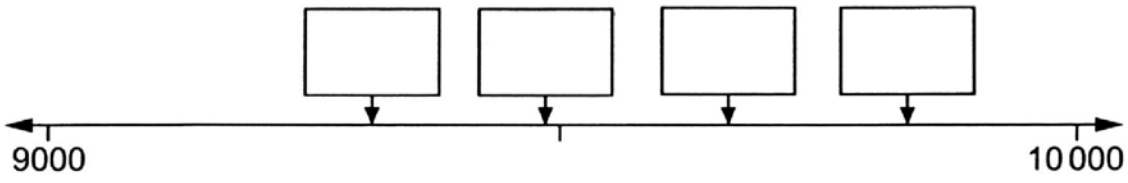
12 Write these fractions in their simplest form.

$\frac{6}{12}$ = ...

$\frac{12}{15}$ = ... [1]

13 Write each number in its correct box to show its position on the number line.

9482 9842

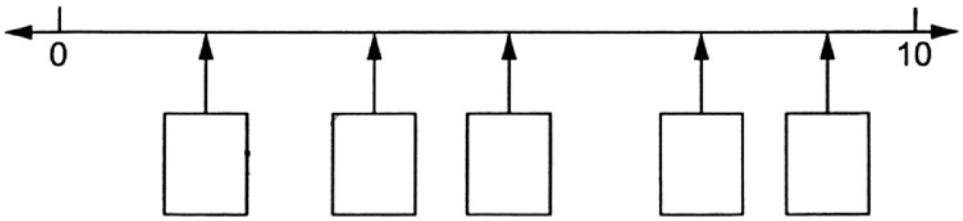


[1]

14 Here are three mixed numbers.

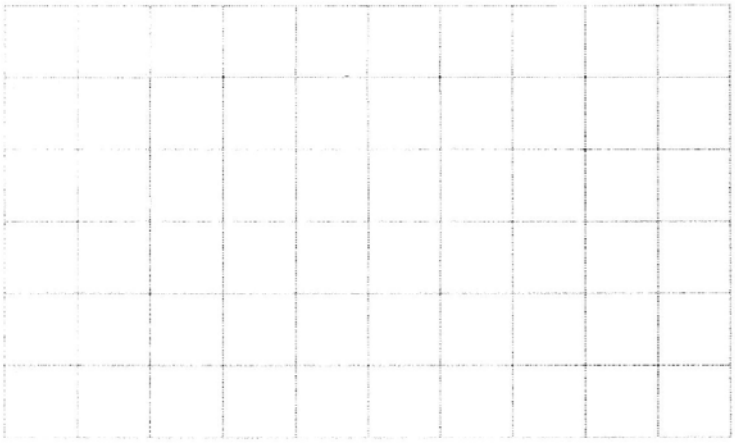
$5\frac{1}{4}$ $7\frac{1}{2}$ $3\frac{3}{4}$

Write each number in its correct box on the number line. You will not need all of the boxes.



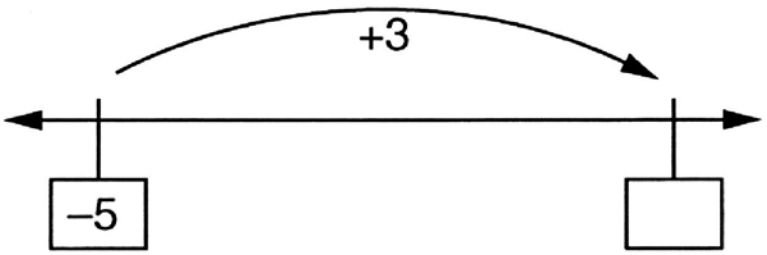
[2]

15 Here is a $1\,cm^2$ grid.
Draw a rectangle with a perimeter of 12 cm.



[1]

16 What is the missing number?



[1]

17 A sequence starts at 300 and 40 is subtracted each time.

300 260 220 180.....

The sequence continues in the same way.

What is the first number in the sequence which is less than zero?

..... [1]

18 Draw a ring around **all** the numbers that are factors of 42

1 2 3 4 5 6 7

[1]

19 Write the missing numbers in each box.

(a) 0.4 + ☐ = 1 [1]

(b) 3.3 + ☐ = 10 [1]

20 Draw a ring around **all** the numbers which are multiples of 25

250 730 675 380 55 [1]

21 **(a)** Calculate.

400×70

..... [1]

(b) Here is a number fact.

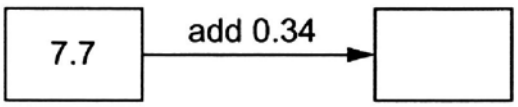
$18 \times 5 \times 6 = 540$

Use this to work out

$18 \times 5 \times 12$

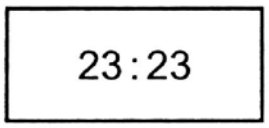
..... [1]

22 Write the missing number.



[1]

23 Here is a clock face showing a digital time.



Draw a ring around the time that is the same as that shown on the clock.

11:23 am 3:23 pm 11:23 pm

2:23 pm 3:23 am

[1]

24 John records how many points each of his friends get on sports day.
Here are the results.

15, 12, 8, 16, 11, 12, 9,
12, 15, 14, 4, 9, 12, 18,

(a) What is the mode of the points scored?

..... [1]

(b) Complete the frequency table.

	Tally	Frequency
0 – 4		
5 – 9		
10 – 14		
15 – 19		

[1]

25 At midday the temperature in Moscow was 7°C.
At midnight it was –3°C.

By how many degrees did the temperature fall?

..... °C [1]

26 **(a)** Draw a ring around the two fractions which are equivalent.

$\frac{3}{5}$ $\frac{6}{12}$ $\frac{10}{24}$ $\frac{15}{25}$ $\frac{7}{21}$ [1]

(b) Work out $\frac{2}{3}$ of 42

..... [1]

27 (a) Here are the heights of some children.

134 cm 142 cm 156 cm 145 cm

Calculate the range of their heights.

..... cm [1]

(b) The range of the heights of three adults is 17cm.

Write down possible heights of the shortest and tallest adults.

..... cm 165 cm ..... cm

[1]

28 (a) Write three **different** whole numbers in the boxes to make the multiplication correct.

The numbers must be greater than 1.

$\square \times \square \times \square = 60$ [1]

(b) Write whole numbers in the boxes to make this division correct.

The numbers must be greater than 1.

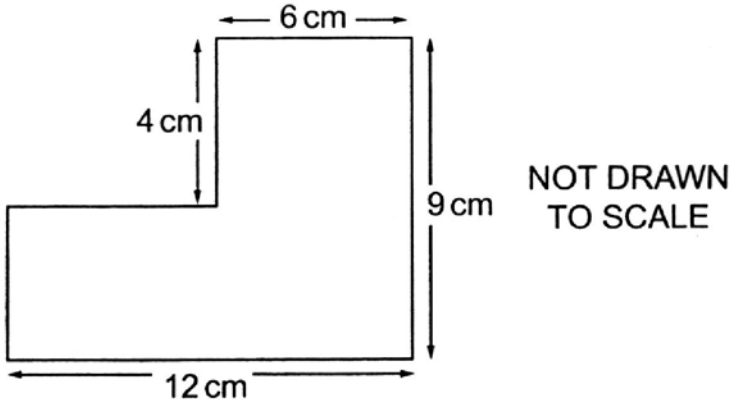
$\square \div \square = 60$ [1]

29 Write in the missing digits to make this calculation correct.

$$\begin{array}{r} \square\,7\,\square \\ \times\quad 6 \\ \hline 1\,0\,3\,2 \end{array}$$

[1]

30 Here is a compound shape made from two rectangles.



(a) Calculate the perimeter of the shape.

..... cm [1]

(b) Calculate the area of the shape.

..... cm^2 [1]

* 2952002101 *

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CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

* 5 6 4 4 9 5 6 3 8 8 *

MATHEMATICS **0845/02**

Paper 2 **April 2013**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

For Examiner's Use	
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1 Complete the table.

The first row has been done for you.

In words	In figures
Six hundred and forty	640
Seven thousand, nine hundred and six	
	2079

[1]

2 Use either < or > to make each statement correct.

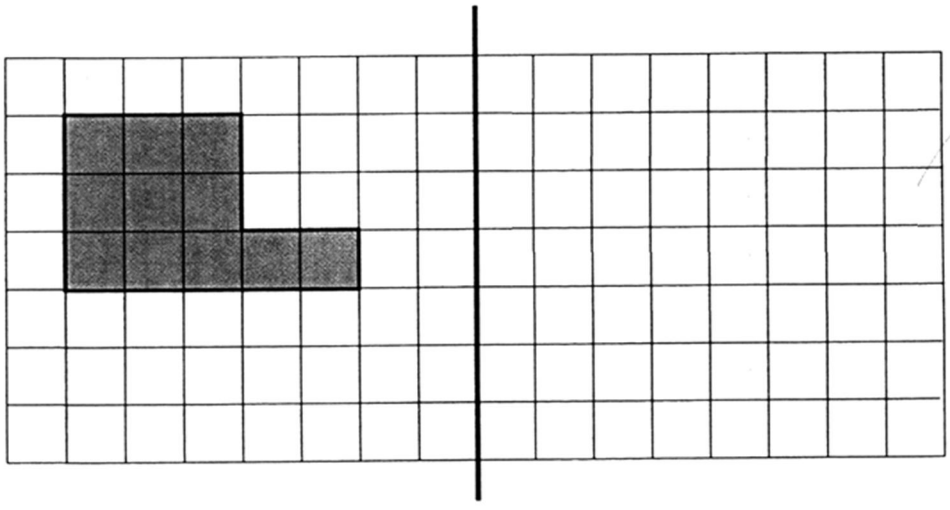
112 ☐ 102

1121 ☐ 1211

2111 ☐ 1112

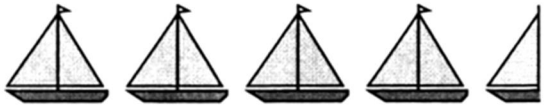
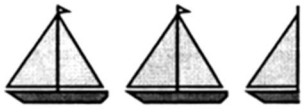
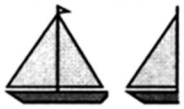
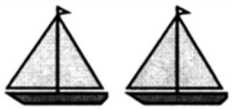
[1]

3 Draw the reflection of the shape in the mirror line.



[1]

4 George counts the number of boats sailing into a harbour on 5 days.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Key

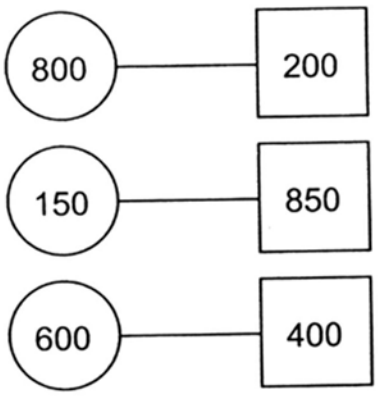
 represents 10 boats

 represents 5 boats

How many boats does George count sailing into the harbour altogether?

..... boats [1]

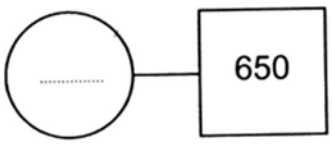
5 **(a)** Each diagram shows a pair of numbers, one in a circle and one in a square.



Describe the connection between the pairs of numbers.

[1]

(b) The numbers in this diagram are connected in the same way.
Fill in the missing number.



[1]

6 Draw a ring around the number which has the digit 5 in the thousands column.

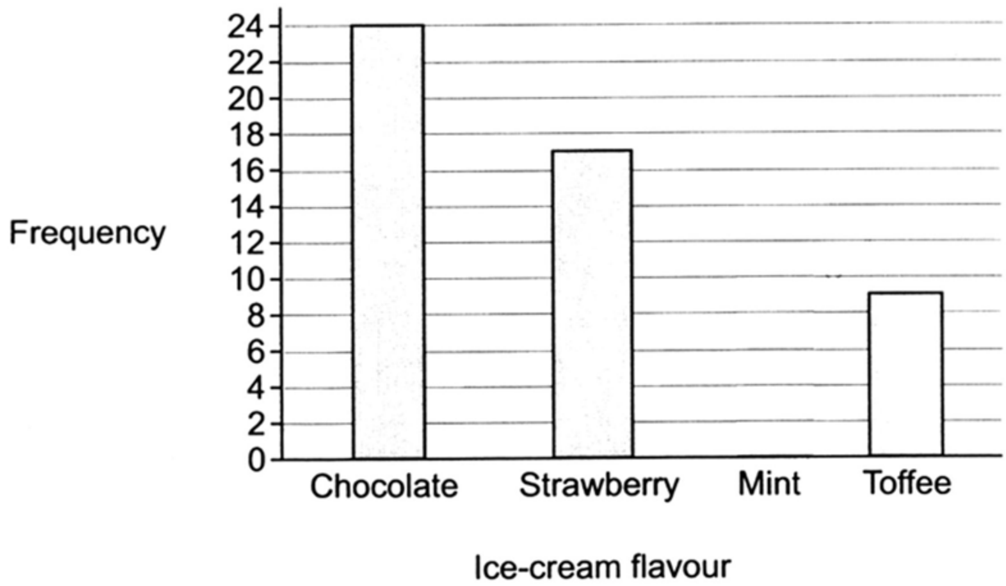
65 302 51 302 69 502 48 352 [1]

7 Marcel sells ice-creams.
One day he keeps a tally of his sales.

Flavour	**Tally**	**Frequency**
Chocolate	𝍸 𝍸 𝍸 𝍸 ||||	24
Strawberry	𝍸 𝍸 𝍸 ||	
Mint	𝍸 𝍸 |||	13
Toffee	𝍸 ||||	

(a) Complete the frequency column. [1]

(b) He puts all of this information into a bar chart. Draw the bar for mint.



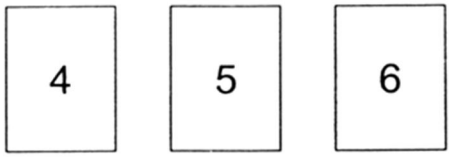
[1]

8 Write the missing number.

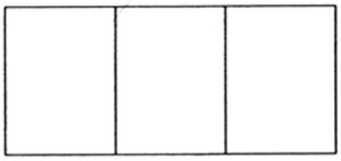
$$\frac{1}{3} + \boxed{\frac{\quad}{\quad}} = 1$$

[1]

9 Tina has these three cards.



Use each card **once** to make the largest possible number that will divide by 5 exactly.



[1]

10 Put a tick (✓) next to the calculation that is the same as $\frac{1}{4}$ of 12

12×4 ☐

$12 - 4$ ☐

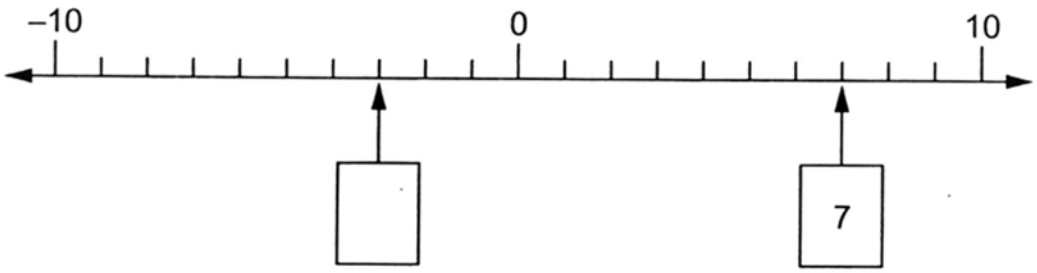
$12 + \frac{1}{4}$ ☐

$12 \div 4$ ☐

$12 - \frac{1}{4}$ ☐

[1]

11 The difference between the two numbers in boxes shown on this line is 10
Write the missing number in the box.



[1]

12 **(a)** Round 8375 to the nearest thousand.

..... [1]

(b) Round 3.66 to the nearest tenth.

..... [1]

13 Here are four digit cards.

0	1	3	5

Use these cards to complete this calculation. Each card must only be used once.

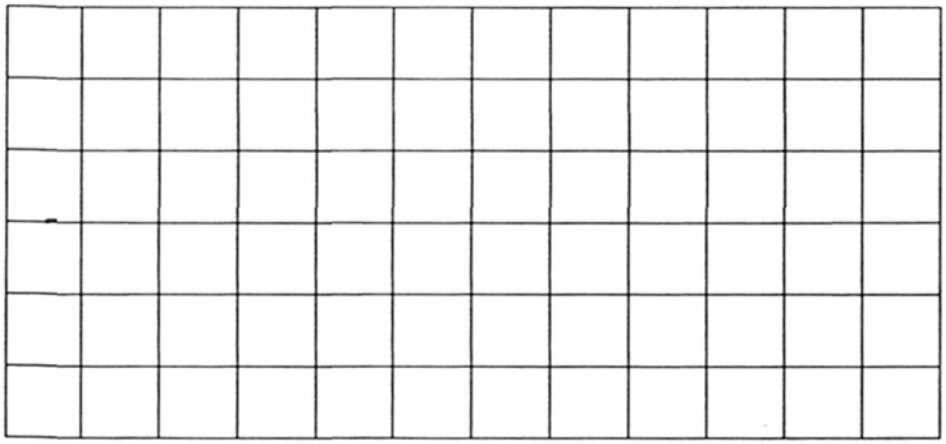
		×			= 450

[1]

14 **(a)** Clara is investigating the following statement:

> Some quadrilaterals have exactly two lines of symmetry.

On the grid below, draw an example of a shape that shows this statement to be **true**.



[1]

(b) Adam is investigating this statement

> Some triangles contain exactly two right angles.

Explain why this statement is **false**.

[1]

15 Complete the table of equivalent fractions, decimals and percentages.

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
	0.4	
$\frac{3}{4}$		

[2]

16 **(a)** Tick (✓) to show whether each of these calculations is true or false.

	True	False
$27 \div 5 = 5$ remainder 2	☐	☐
$47 \div 7 = 5\frac{6}{7}$	☐	☐
$37 \div 6 = 6\frac{1}{6}$	☐	☐

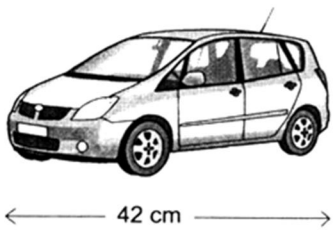
[1]

(b) Complete this calculation.

$\square \div 7 = 4\frac{2}{7}$

[1]

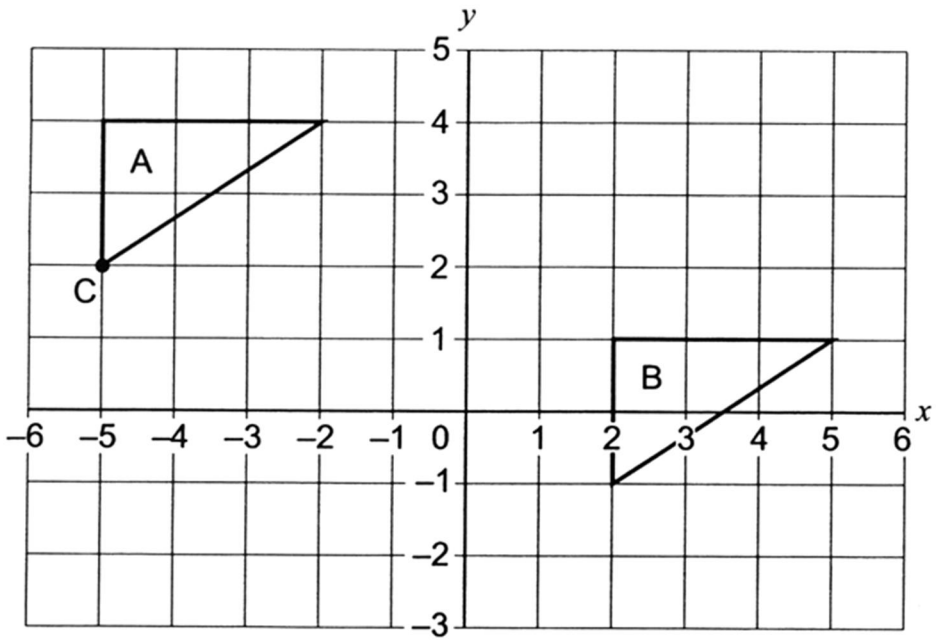
17 A model of a car is one tenth of the size of the real car.
The model measures 42 cm long.



What is the length of the real car?
Give your answer in centimetres.

..... cm [1]

18 Here are 2 triangles on a grid.



(a) What are the co-ordinates of point C?

(..... , ...) [1]

(b) Describe the translation that moves triangle A to triangle B.

[1]

19 Use one of the symbols to complete each number sentences.

	<	=	>
$\frac{5}{8}$	☐		$\frac{3}{8}$
$\frac{6}{8}$	☐		$\frac{3}{4}$
$\frac{3}{8}$	☐		$\frac{1}{2}$

[1]

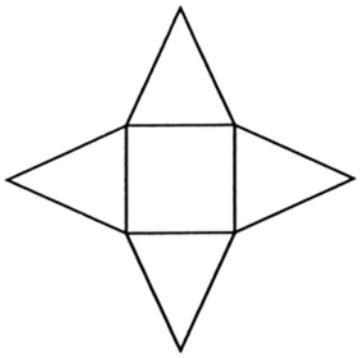
20 The distance between two towns is 50 miles.

Tick (✓) the best approximation of 50 miles in kilometres.

8 kilometres	☐
30 kilometres	☐
80 kilometres	☐
200 kilometres	☐
500 kilometres	☐

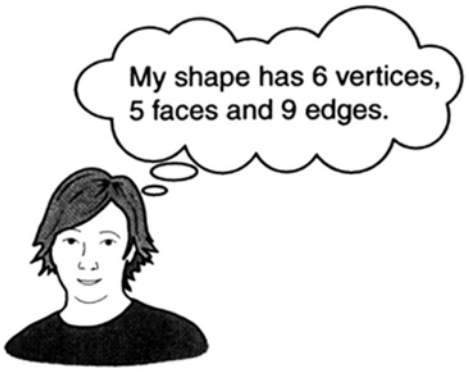
[1]

21 Here is a net of a 3D shape.



(a) What 3D shape does it make? ..... [1]

(b) Alex thinks of a 3D shape.



Write down the name of the 3D shape Alex is thinking of.

..... [1]

22 **(a)** Write 2.456 kilometres in metres.

..... m [1]

(b) Write 256 grams in kilograms.

..... kg [1]

23 **(a)** Layla is writing the prime numbers in order.

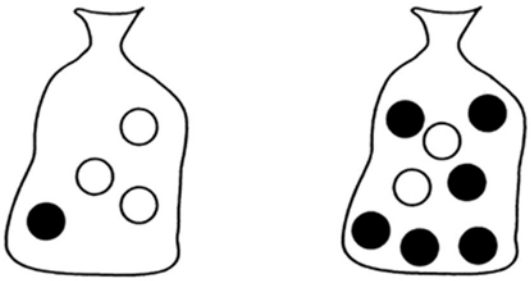
Write in the prime numbers she has missed.

2, 3, 5, 7, ..., 13, ..., 19, 23 [1]

(b) Write the next two numbers in the sequence.

1, 4, 9, 16, 25, ..., ...; [1]

24 Here are two bags.



bag A bag B

Bag A has 1 black bead and 3 white beads.
Bag B has 2 white beads and 6 black beads.

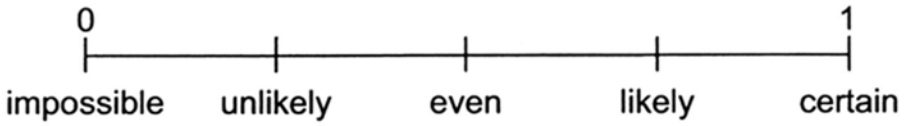
Isaac takes a bead without looking from each bag in turn.

(a) What is the probability of Isaac taking a black bead from bag A?
Draw a ring around one answer.

certain impossible even likely unlikely

[1]

(b) What is the probability of Isaac taking a black bead from bag B?
Mark your answer with an arrow (↓) on the probability line.



[1]

25 Here is part of a train timetable.

Both trains take the same time to travel between stations.

	Train A	Train B
Longfield	09 39	12 31
Stoneton	09 56	12 48
Middleton	10 20	
Churchville	10 28	13 20
Postley	10 33	13 25

(a) Fill in the missing time for Train B. [1]

(b) What is the journey time between Longfield and Churchville?

..... minutes [1]

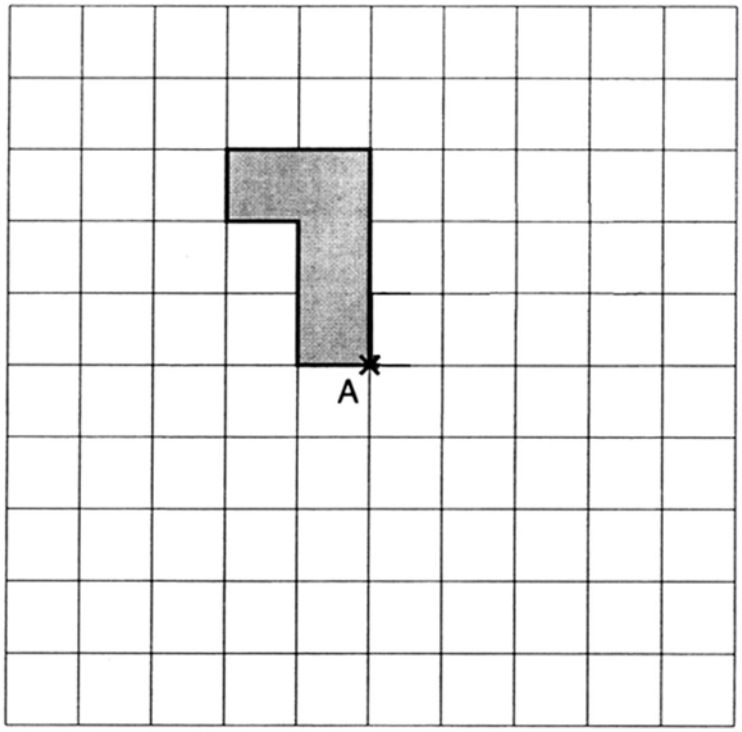
26 The price of a coat is $45

In a sale the price is reduced by 15%.

Work out the price of the coat in the sale.

$ ..... [1]

27 Rotate the shape clockwise through an angle of 90° about vertex A.



[1]

28 Fill in the missing digits to make this addition correct.

2	6		+	5		4	=		1	7

[1]

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Cambridge Primary Checkpoint

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

MATHEMATICS **0845/01**

Paper 1 **October 2013**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

For Examiner's Use	
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Total	

This document consists of **15** printed pages and **1** blank pages.

UNIVERSITY of CAMBRIDGE International Examinations

1 What is the missing number?

4000	is one hundred more than	

[1]

2 Look at these shapes.

How many lines of symmetry does each shape have?

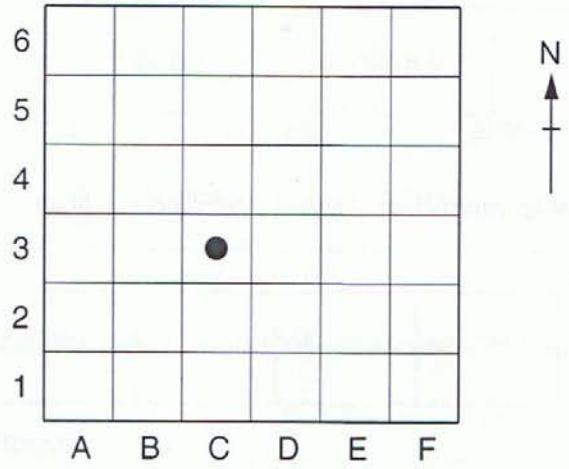
.... [1]

3 There are 206 children in a school.
One day 9 children are absent.

How many children attend school on that day?

..... children [1]

4 Angela places a counter on the square C3



She moves it 2 squares east and 3 squares north.

What square does she move the counter to?

..... [1]

5 Complete these statements.

1 whole turn = ... right angles

1 whole turn = ... ° [1]

6 Here are some number cards.

4	7	1	9

Use each card **once** to make the largest possible number.

[1]

7 Find the sum of 379 and 642

..... [1]

8 Double 46

..... [1]

9 **(a)** Here are some units of measurement.

kilograms	centimetres	
litres	millimetres	grams
kilometres	metres	

Choose units from the box to complete these sentences.

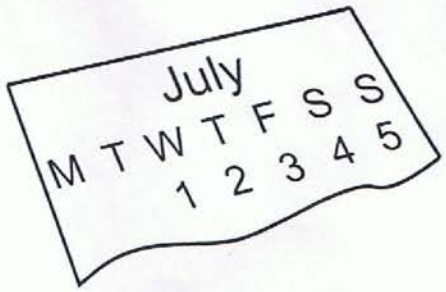
The mass of a mouse is 20 .....

The length of a football pitch is 105 ..... [1]

(b) Write a number in the gap to make this statement correct.

1 metre = ... millimetres [1]

10 Here is part of the calendar for July.



Toni's birthday is on 23rd July.

What day of the week is Toni's birthday?

..... [1]

11 Write in the missing number.

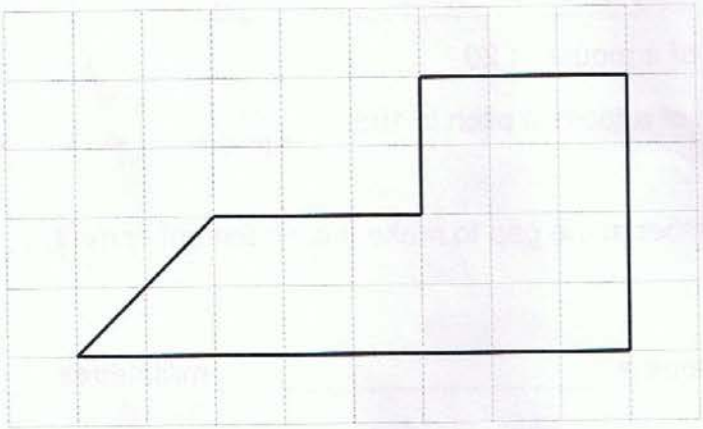
$\square = 70 \times 3$

[1]

12 Here is a shape drawn on a grid.

The area of each square is 1 cm²

What is the area of the shape?



..... cm^2 [1]

13 (a) Write these temperatures in order from coldest to warmest.

4°C −3°C −5°C 2°C 1°C

....

coldest warmest [1]

(b) The temperature in Cambridge one night was −4°C.
The next day the temperature had risen to 5°C.

By how many degrees did the temperature **rise**?

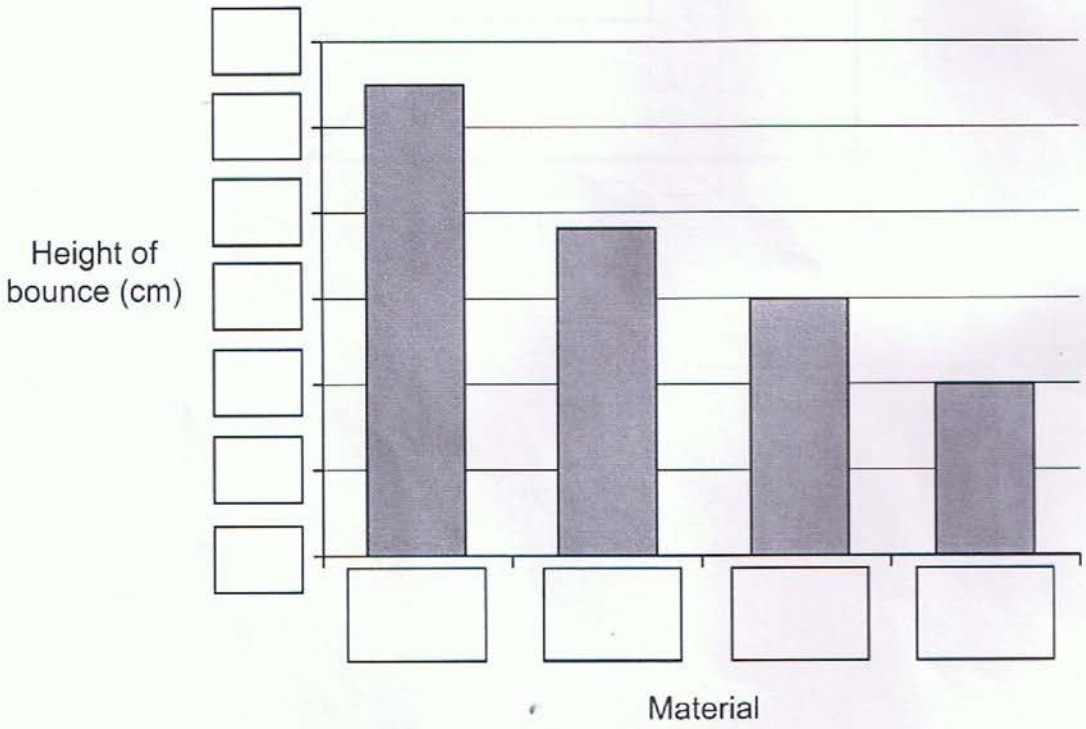
..... °C [1]

14 Hakim decides to investigate which balls bounce the highest. He drops balls made of different materials from a metre high and records the height of the bounce.

The table shows the result of his investigation.

Material	Height of bounce (cm)
plastic	30
cork and leather	20
sponge	38
rubber	55

Hakim draws a graph of the results. Complete the labels on his graph.



[2]

15 Complete each of the multiplications.

Use **different** whole numbers for each multiplication.

The first one has been done for you.

1 × 24 = 24

..... × ..... = 24

..... × ..... = 24

..... × ..... = 24

[1]

16 Write in the missing number.

$8 \times 5 = 17 +$ ☐

[1]

17 **(a)** Round 34.56 to the nearest whole number.

..... [1]

(b) Round 17 484 to the nearest thousand.

..... [1]

18 **(a)** Write a whole number in the box to make this statement correct.

$468 < \square < 472$ [1]

(b) Write the **smallest** whole number that makes this statement correct.

$1142 > \square > 981$ [1]

19 There are 30 pupils in a class.
20% of the pupils travel to school by car.

How many pupils travel to school by car?

..... pupils [1]

20 Draw a ring around each of the fractions that are equivalent to $\frac{1}{2}$

$\frac{2}{4}$ $\frac{6}{15}$ $\frac{5}{10}$ $\frac{4}{8}$ $\frac{14}{20}$ [1]

21 **(a)** Complete these calculations.

100 × 121 = ...

50 × 242 = ...

25 × 484 = ... [1]

(b) A packet of biscuits has a mass of 484 grams.

What is the total mass of 24 of these packets of biscuits?
You might find your answers to part **(a)** helpful.

..... grams [1]

22 Here is information about a three-dimensional shape.

Number of faces	Number of edges	Number of vertices
5	8	5

Draw a ring one name to identify the shape.

triangular prism triangular based pyramid

square based pyramid pentagonal prism

[1]

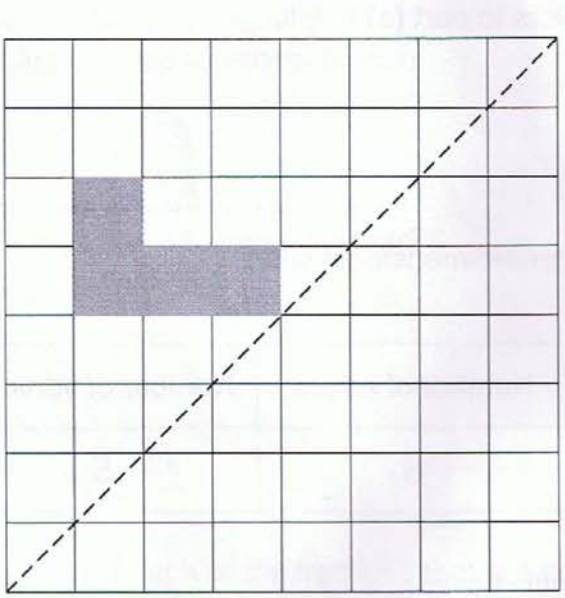
23 Daniel buys some coloured pencils.

He buys 1 red pencil for every 2 blue pencils.
He buys 24 red pencils.

How many blue pencils does he buy?

..... pencils [1]

24 Draw the reflection of this shape in the mirror line.



[1]

25 (a) Here are some number cards.

3	4	5	7	8

Use four **different** cards to complete this calculation.

0. ☐☐ + 0. ☐☐ = 1

[1]

(b) Write these numbers in order of size, starting with the smallest.

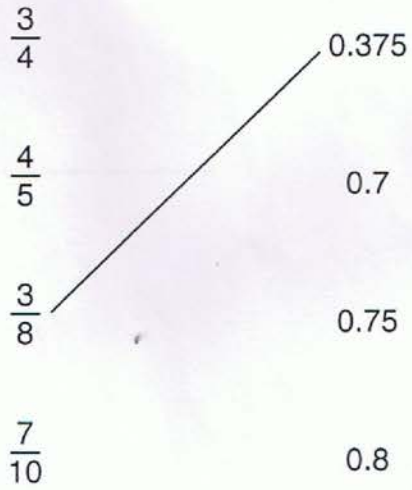
0.52 0.06 0.6 0.25

....

smallest largest [1]

26 Draw a line to match each fraction to its decimal equivalent.

One has been done for you.



[2]

27 (a) There are 342 children in a school.
They each read 12 books a month.

How many books will these children read altogether in one month?

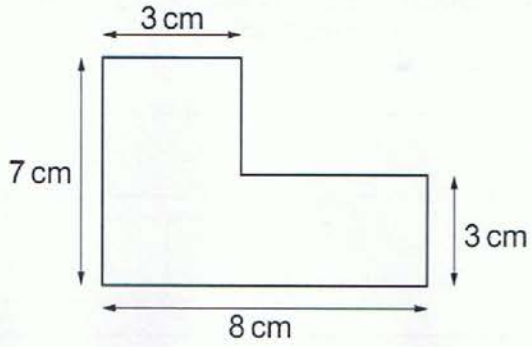
..... books. [2]

(b) A shop has 594 pencils.
They are sold equally between 18 children.

How many will they each receive?

..... pencils. [2]

28 Here is a shape.



NOT DRAWN
TO SCALE

(a) What is the area of the shape?

..... cm^2 [1]

(b) What is the perimeter of the shape?

..... cm [1]

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CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

MATHEMATICS **0845/02**

Paper 2 **October 2013**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

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[Turn over

1 Here are five number cards.

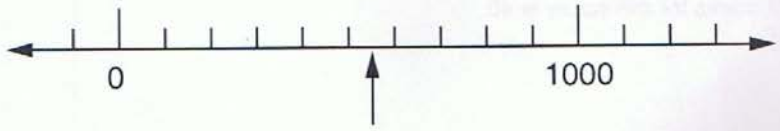
A	Fifty-six
B	Six thousand, five hundred and fifty-five
C	Six thousand, five hundred and fifty
D	Sixty-five
E	Six thousand, five hundred and five

Write the letter of the card that is the answer to

(a) $650 \div 10 =$ ..... [1]

(b) $655 \times 10 =$ ..... [1]

2 Here is part of a number line.



Which number is shown by the arrow?

..... [1]

3 Complete these number facts.

$$\frac{\square}{4} + \frac{1}{4} = 1$$

$$\frac{1}{\square} + \frac{1}{2} = 1$$

[1]

4 **(a)** Sunilla counts the number of men, women and children attending a concert.

The pictogram shows some of her results.

Women	🧍🧍🧍🧍🧍🧍
Men	🧍🧍🧍
Children	

Key: 🧍 represents 20 people

She counts 90 children.

Complete the pictogram. [1]

(b) Why would it **not** be a good idea for Sunilla to draw her pictogram using a scale of one symbol to represent 2 people?

.....

..... [1]

5 **(a)** Mount Everest is eight thousand, eight hundred and fifty metres high.
Draw a ring around the number which shows this height in figures.

885 m 8805 m 8815 m 8850 m 88 050 m [1]

(b) The River Rhine is 1236 kilometres long.
Round this length to the nearest ten kilometres.

.....kilometres [1]

6 The first 5 numbers in a sequence are

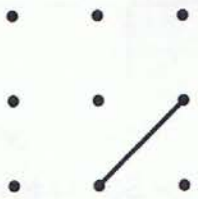
6, 8, 12, 18, 26, ...

The sequence continues in the same way.

What is the next number in the sequence?

..... [1]

7 Join dots to draw 2 more lines to make an isosceles triangle.



[1]

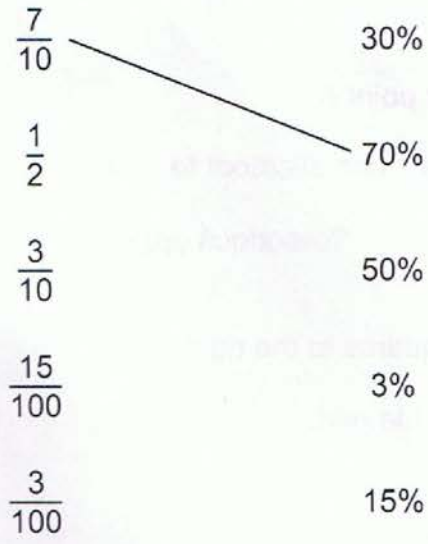
8 **(a)** Draw a ring around **all** the numbers in the list below that are multiples of 8

2 4 8 20 24 46 56 60 [1]

(b) Draw a ring around two numbers in the list below that are multiples of both 4 **and** 6

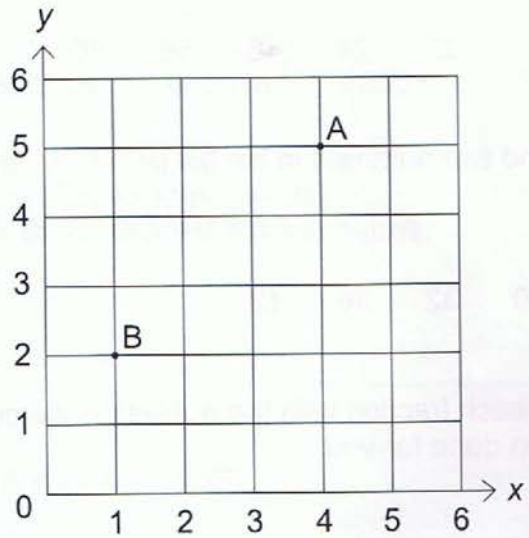
12 16 20 32 36 42 [1]

9 Draw a line to match each fraction with the equivalent percentage.
The first one has been done for you.



[1]

10 Two points have been marked on a grid.



(a) Give the co-ordinates for point A.

(....., ...) [1]

(b) Point B is translated 4 squares to the right.

Plot this new position on the grid.

[1]

11 In a school cupboard there are 5 sacks of footballs, 6 sacks of rugby balls and 3 sacks of basketballs.

Each sack holds 16 balls.

(a) How many balls are there altogether?

..... [1]

(b) A teacher takes out 2 sacks of footballs and 1 sack of rugby balls.

How many balls are left in the cupboard?

..... balls [1]

12 Michael and Gareth use this recipe to make cupcakes.

Cupcakes

For 12 cupcakes:

120g	butter
100g	caster sugar
100g	self-raising flour
2	eggs
$\frac{1}{4}$	teaspoon vanilla extract

(a) Michael wants to make 24 cupcakes.
Work out how much butter he needs.

..... g [1]

(b) Gareth has all the ingredients in the recipe, except he only has one egg.
How many cupcakes can he make?

..... [1]

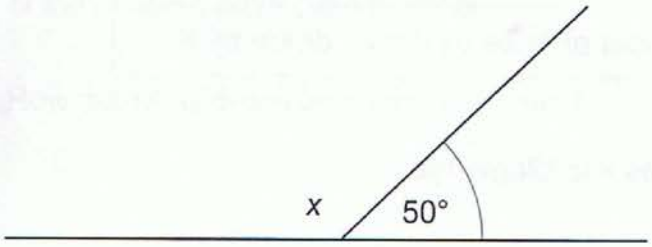
13 Work out

$(14.8 + 17.2) \times 1.25$ .....

$120 \div (12 - 4.5)$ ..... [1]

14 Calculate angles x and y.

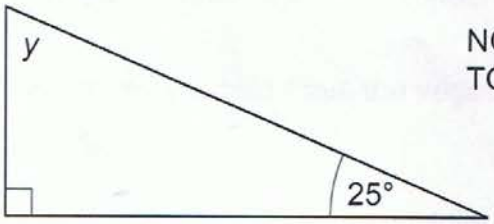
(a)



NOT DRAWN
TO SCALE

$x =$ ..... ° [1]

(b)



NOT DRAWN
TO SCALE

$y =$ ..... ° [1]

15 Change $\frac{22}{7}$ to a mixed number.

..... [1]

16 The rule to convert miles to kilometres is:

Multiply number of miles by 8 then divide by 5

Use this rule to convert 4 miles into kilometres.

..... kilometres [1]

17 Jenny thinks of two prime numbers.

Both numbers are bigger than 10

The sum of her numbers is 28

What are the two numbers that Jenny is thinking of?

..... and ..... [1]

18 Kamal buys a packet of 24 biscuits.

He eats 6 biscuits.

Draw a ring around the percentage which gives the amount of biscuits he did **not** eat.

25% 50% 60% 75% 80% [1]

19 A school has 120 children.

$\frac{3}{10}$ of the children have school dinners.

(a) How many children have school dinners?

..... children [1]

(b) $\frac{1}{6}$ of the children who have school dinners have the vegetarian option.

How many children have the vegetarian option?

..... children [1]

20 The table shows the midday temperature in Ahmed's village for one week.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
18°C	24°C	20°C	25°C	27°C	40°C	21°C

(a) Find the median midday temperature.

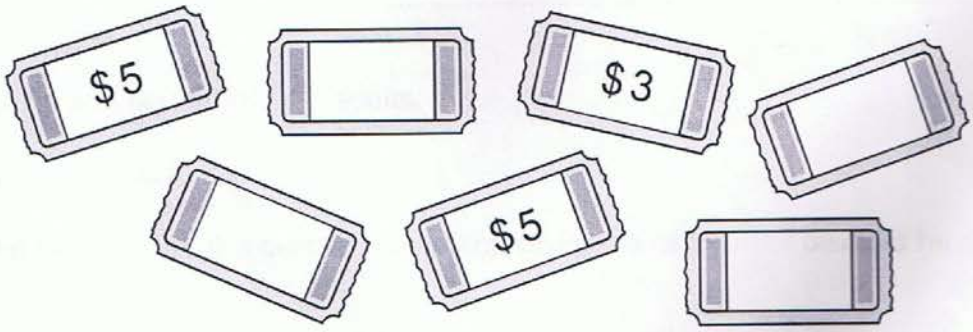
..... °C [1]

(b) Work out the mean midday temperature for the week.

..... °C [1]

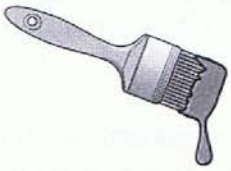
21 Here are the prices of some cinema tickets.

Complete the prices so that they have a mode of \$4 and a range of \$3



[2]

22 The cost of some items in a decorating store is shown.



paintbrush
$2.40

stepladder
$18.70

paint
$13

Freddie has $100

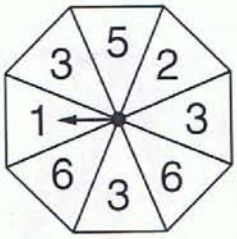
He buys two paintbrushes and a stepladder.

Work out how many cans of paint he can buy with the money he has left.

Show how you worked out your answer.

..... cans [2]

23 Here is a fair number spinner.



(a) What number is the arrow most likely to land on?

..... [1]

(b) Draw a ring around the word that describes the likelihood of it landing on a 5

Likely Unlikely Certain Even-chance Impossible

[1]

24 Harry is 1.82 m tall.
Daniel is half as tall as Harry.
Daniel is 9 cm taller than his sister Edith.

Work out Edith's height in metres.

..... metres [2]

25 Here is part of a bus timetable.

Fenton	08 38	09 25	10 06	10 50
Kibstock	09 07	10 02	10 38	11 25
Pentwell	09 35	10 37	11 05	11 47
Leadtown	10 11	11 09	11 48	12 14

(a) Mr Hasan travels from Fenton to Leadtown.
He catches the 08 38 bus.

How long will his journey last?

Give units with your answer.

..... [1]

(b) Mrs Shah lives in Kibstock and needs to be in Pentwell by 11 35

What is the latest bus she can catch from Kibstock?

..... [1]

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

1650057822

MATHEMATICS **0845/01**

Paper 1 **October 2015**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

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Calculators are **not** allowed.

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The total number of marks for this paper is 40.

This document consists of **14** printed pages and **2** blank pages.

1 Write the missing numbers.

(a) 67 + ☐ = 100

[1]

(b) 650 + ☐ = 1000

[1]

2 Double 76

.....

[1]

3 Complete the calculations.

(a) 376 × 10 = ☐ [1]

(b) ☐ ÷ 10 = 48 [1]

4 This is part of a calendar for May.

S	M	T	W	T	F	S
		1	2	3	4	5
6						

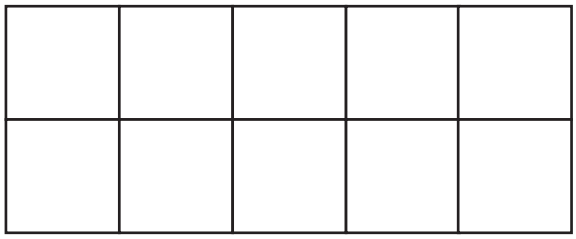
Graham's birthday is on 26th May.

Which day of the week is his birthday?

.....

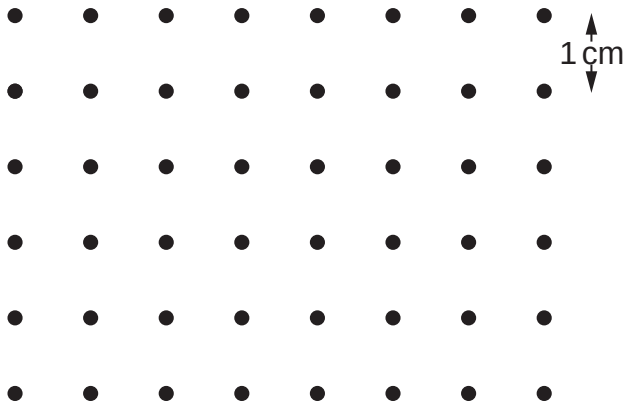
[1]

5 Shade $\frac{1}{5}$ of this diagram.



[1]

6 **(a)** Draw a rectangle 5 cm long and 2 cm wide by joining dots on the grid.



[1]

(b) Find the perimeter of the rectangle.

..... cm [1]

7 A piece of string 3 m 24 cm long is cut into two equal lengths.

How long is each piece?
Give your answer in metres.

..... m [1]

8 Abdul records the shoe colour of every person in his class. They are:

Blue	Black	Brown	Brown	Black	Brown	White	Black	Blue
White	Black	Black	Blue	Brown	Black	Blue	Blue	Black

(a) Complete the table to show the data.

Shoe colour	Tally	Frequency
Black	𝍸 II	7
Blue	𝍸	
Brown		
White	II	2

[1]

(b) Which shoe colour is the mode?

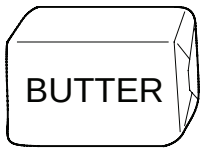
..... [1]

9 Write in the missing number.

$\square$ = 70 x 3

[1]

10 (a) One block of butter has a mass of 250 grams.



How many blocks of butter will Ali need to buy so that he has 1 kg of butter?

..... blocks [1]

(b) Laura has one metre of ribbon.
She cuts off 35 cm.

How much ribbon does she have left?

..... cm [1]

11 Complete each of the multiplications.

Use **different** whole numbers for each multiplication.

The first one has been done for you.

1 × 24 = 24

..... × ..... = 24

..... × ..... = 24

..... × ..... = 24

[1]

12 **(a)** Round 2648 to the nearest hundred.

..... [1]

(b) Round 3568 to the nearest ten.

..... [1]

13 Complete this calculation.

4035 – ☐ = 54

[1]

14 Imagine a number is written on each of these shapes.

The number on the rectangle is 3 more than the number on the triangle.
The number on the circle is 3 more than the number on the rectangle.
The number on the circle is 3

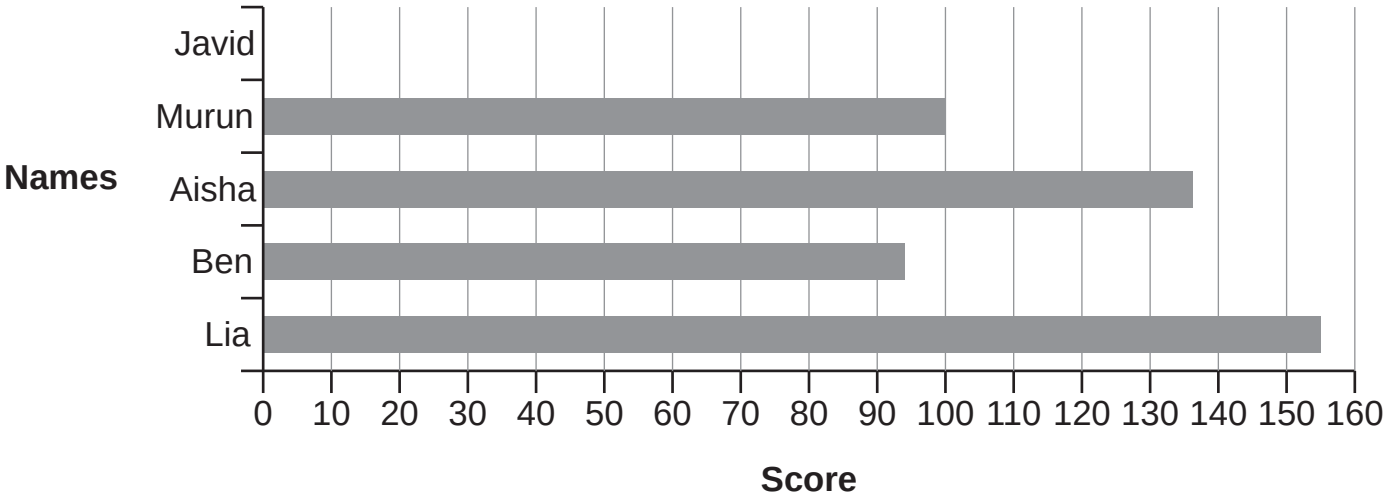
What number is on the triangle?

..... [1]

15 Here are the results of a maths test.

Name	Score
Lia	155
Ben	94
Aisha	136
Murun	100
Javid	118

The results are shown on the bar chart.



(a) Complete the bar chart to show Javid's score. [1]

(b) What is the median score?

..... [1]

16 **(a)** What is the size of one of the angles in an equilateral triangle?

..... ° [1]

(b) What is the name of a triangle with only two equal sides?

..... [1]

17 Calculate 3474 – 1997

..... [1]

18 Here is a number fact.

24 × 16 = 384

Use this fact to complete these calculations.

(a) 2.4 × 16 = ... [1]

(b) 24 × 32 = ...

[1]

19 Calculate

(a) 30 × 600

..... [1]

(b) 0.3 × 6

..... [1]

20 **(a)** What is the value of the digit 2 in the number 4.02?

Draw a ring around the correct answer.

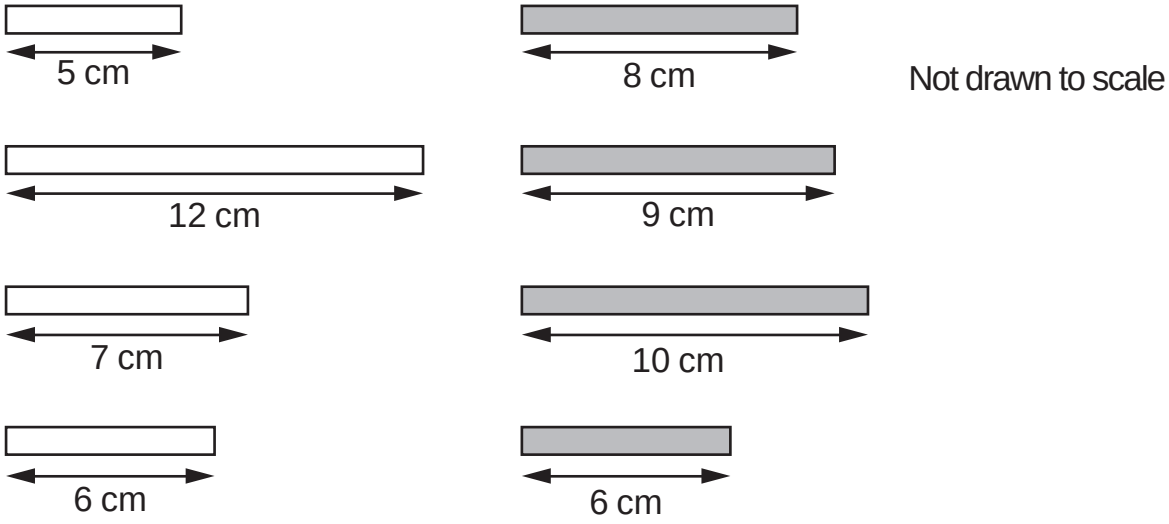
2 hundreds 2 tens 2 units 2 tenths 2 hundredths

[1]

(b) What is the value of the digit 5 in the number 125 319?

..... [1]

21 Mary has 4 white straws and 4 grey straws.



Mary uses 1 white straw and 1 grey straw to make a **total** length of 15 centimetres.

Find **all** the ways Mary could do this.

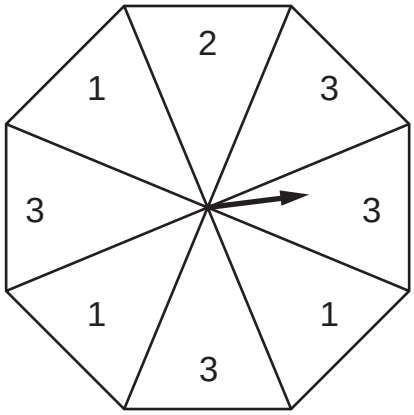
[1]

22 Here are four cards.

Use each card once to make the largest number that is less than 10

[1]

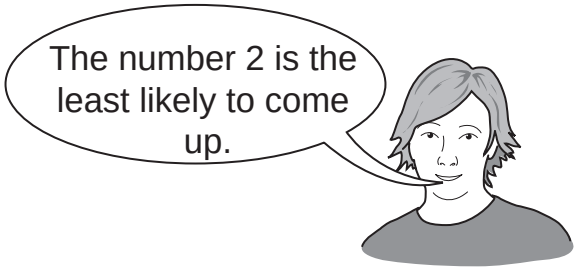
23 Here is a spinner with eight equal sections.



(a) Which number has an even chance of coming up?

..... [1]

(b) John says



Explain why he is correct.

.....

..... [1]

24 The temperature in Moscow in February is –13 °C.
The temperature in London is 2 °C.

What is the difference in the temperature between the two cities?

..... °C [1]

25 Jodi makes a bracelet using beads.

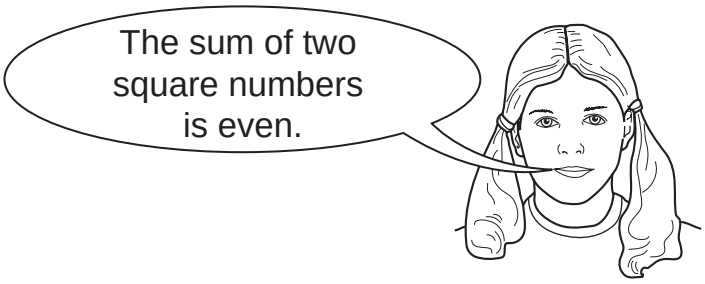
She uses 3 large beads for every 2 small beads.

She uses 35 beads altogether.

How many small beads does she use?

..... beads [2]

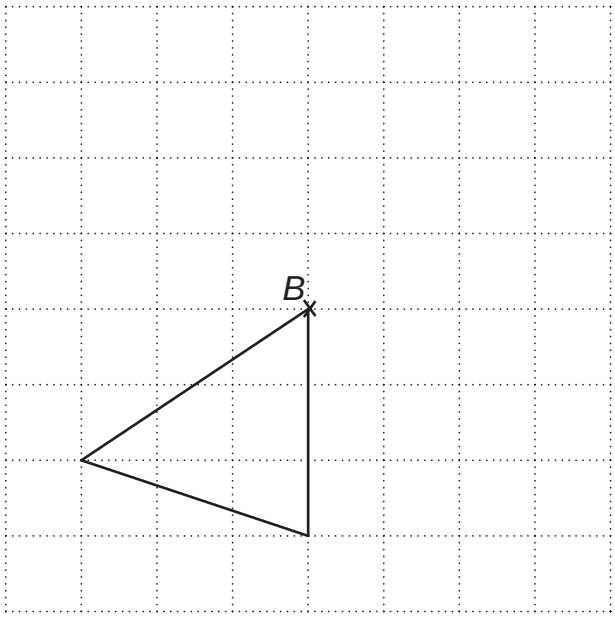
26 Ami says



Give an example to show that Ami **could** be right.

..... [1]

27 Rotate the triangle 90° anticlockwise about point *B*.



[1]

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Cambridge Primary Checkpoint

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

0743610711

MATHEMATICS **0845/02**

Paper 2 **October 2015**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator, Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **14** printed pages and **2** blank pages.

1 **(a)** Here is a list of numbers.

23 28 33 43 46 52 59

Draw a ring around two numbers with a **total** of 74 [1]

(b) Here is a list of the same numbers.

23 28 33 43 46 52 59

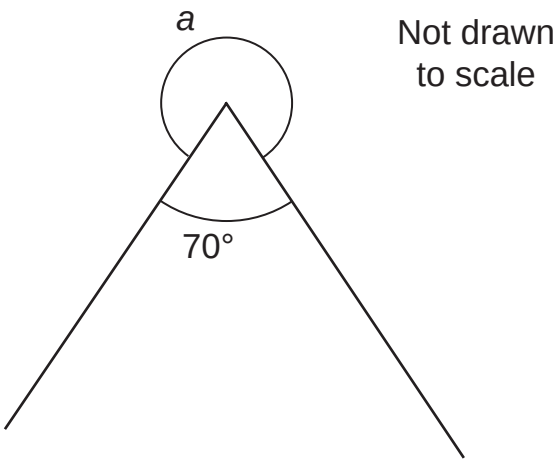
Draw a ring around two numbers with a **difference** of 9 [1]

2 Write the missing numbers in each box to complete each sequence.

(a) 13, ☐ 19, ☐ 25, 28 [1]

(b) 9, 7, ☐ 3, ☐ , ☐ [1]

3 Calculate the size of angle *a*.



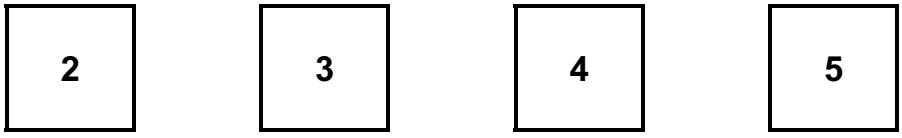
..... ° [1]

4 Complete the calculation.

$$\frac{4}{10} + \frac{\square}{\square} = 1$$

[1]

5 Here are four digit cards.



Anna chooses three of these cards to write three-digit numbers.

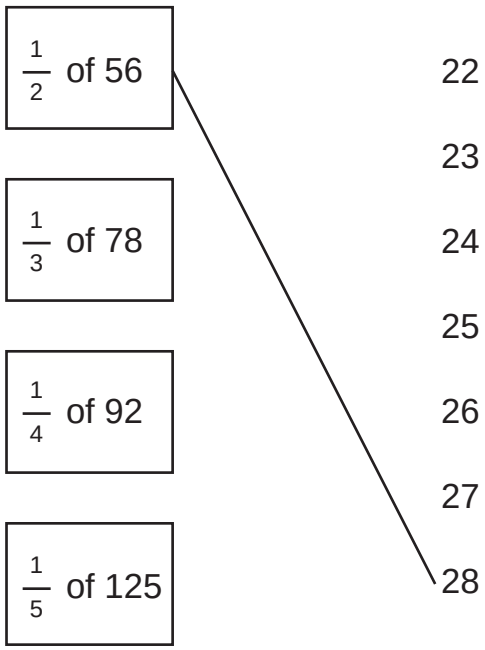
Write **all** the three-digit numbers that Anna could make between 350 and 450

.....

..... [2]

6 Match each calculation in a box to the correct answer.

The first one has been done for you.



[1]

7 Put one tick (✓) in each row to complete the table.

	Greater than $\frac{1}{2}$	**Less than $\frac{1}{2}$**
$\frac{3}{4}$		
0.05		
$\frac{34}{100}$		

[2]

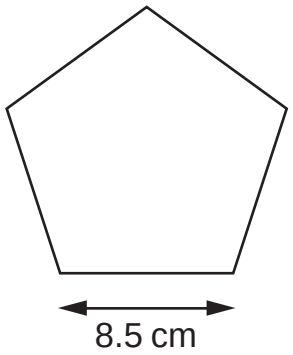
8 Put **one** of the digits 0, 1, 2 and 6 in each box to complete the calculation.

Each digit can only be used once.

		×			= 1260

[1]

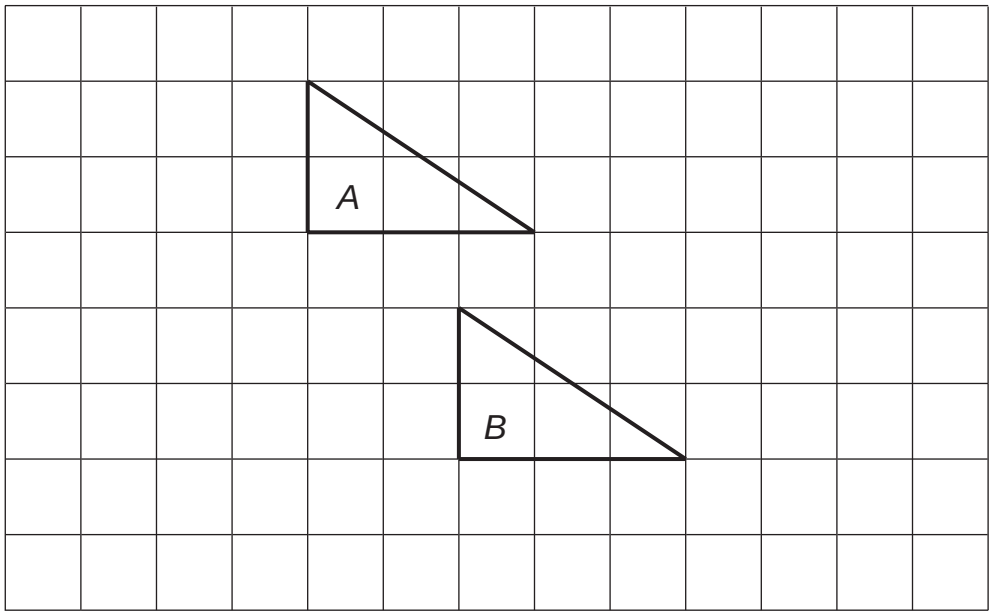
9 Find the perimeter of this regular pentagon.



Not drawn to scale

..... cm [1]

10 Triangles *A* and *B* are drawn on a square grid.



(a) Triangle *A* is translated 4 squares to the right and 1 square down.

Draw the triangle in its new position. [1]

(b) Describe the translation which moves **triangle *A*** from its original position to triangle *B*.

..... [1]

11 Oranges are sold in bags of 6

A school needs 260 oranges.

How many bags will they need?

..... bags [1]

12 Imran starts with one and counts on in fives to give this number pattern.

1 6 11 16 21 26 31

The pattern continues in the same way.

Will he ever find a number in the five times table?

Yes ☐ No ☐

Explain how you know.

.....

..... [1]

13 Aysha is counting on in steps of 0.3

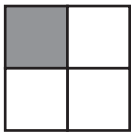
Write in the missing numbers.

0.8 ☐ 1.4 ☐

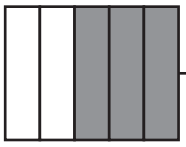
[1]

14 Match each shape to the percentage that is shaded.

One has been done for you.



25%



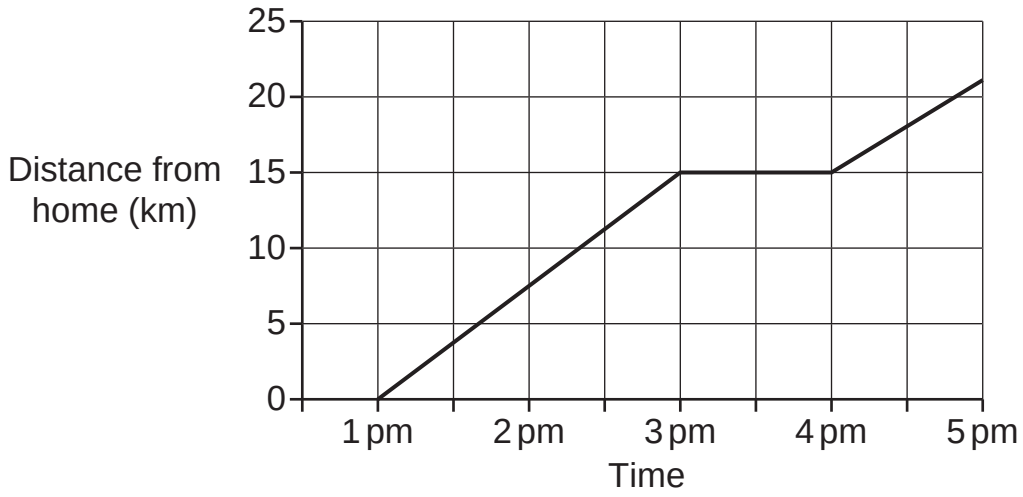
60%

20%

30%

[1]

15 The graph shows Hakim's cycle journey between 1 pm and 5 pm.



(a) How far does he travel between 1 pm and 3 pm?

..... km [1]

(b) What might he be doing between 3 pm and 4 pm?

.....

..... [1]

16 Here are 4 calculations.

Use <, > or = to make each number sentence true.

57.25 × 12.5	☐	750
1000.5 – 249.8	☐	750
452.75 + 297.25	☐	750
600 ÷ 0.8	☐	750

[2]

17 Draw a ring around each prime number.

7 9 10 11 15 17

[1]

18 Here are 6 digit cards.

1	2	3	4	5	6

Use 4 of the cards to complete this number sentence.

$$\frac{\square}{\square} = \frac{\square}{\square}$$

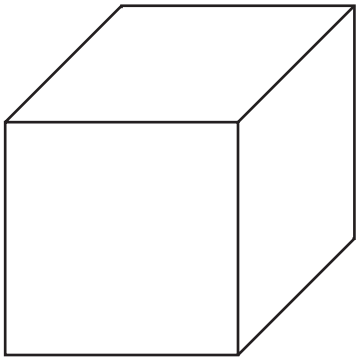
[1]

19 Apples cost \$1.60 for 500 g

What is the cost of 2 kg of apples?

\$ ..... [1]

20 Here is a diagram of a cube.



(a) How many edges does the cube have?

..... edges [1]

(b) How many vertices does the cube have?

..... vertices [1]

21 Here is a bus timetable.

Atown	07 45	11 05	14 45
Beville	08 05	11 25	15 05
Cecity	08 38	11 58	15 38
Doham	09 13	12 33	16 13

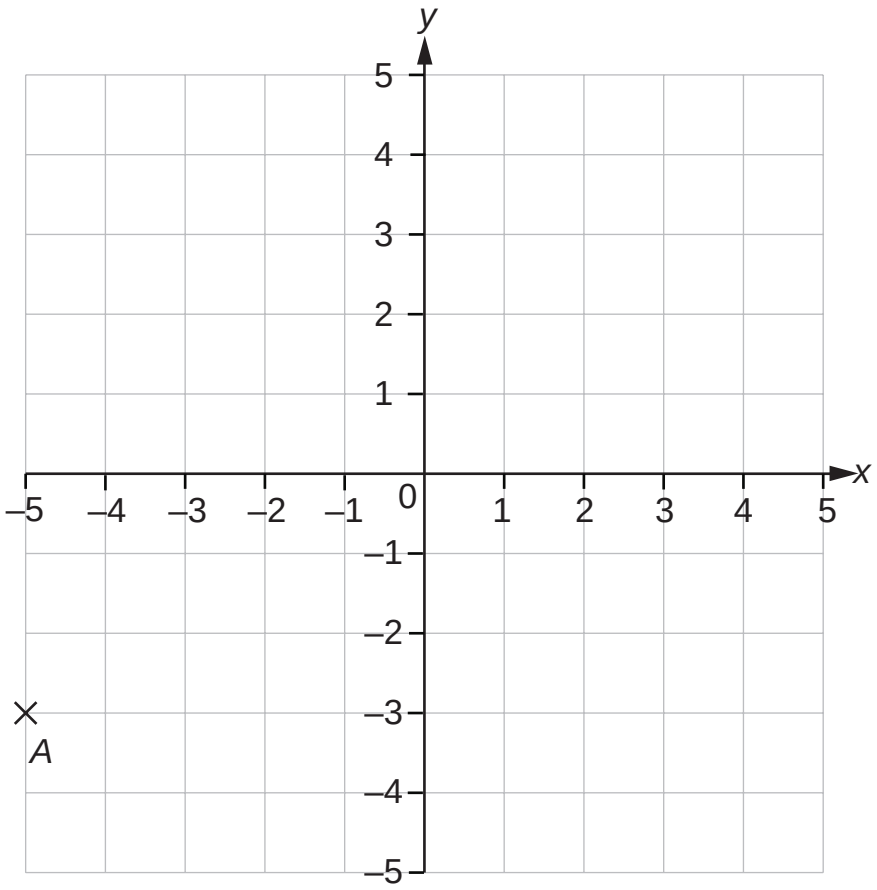
(a) How long does the bus take to get from Beville to Doham?

..... minutes [1]

(b) Tula gets on a bus at 14 45 and gets off 53 minutes later.
Where does she get off the bus?

..... [1]

22 **(a)** Plot the points B (5, –3), C (3, 3) and D (–3, 3) on the grid.



[1]

(b) Join the points A, B, C, D to make a shape.
What is the name of this quadrilateral?

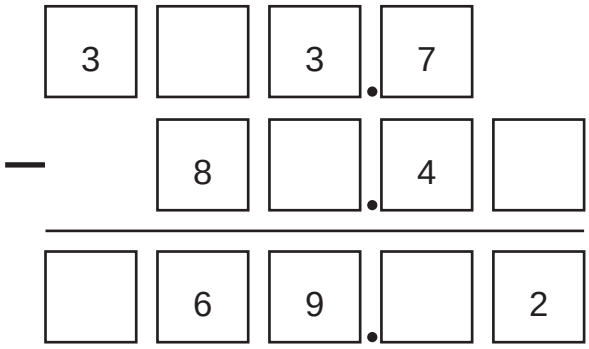
..... [1]

23 Complete the calculations.

(a) $5 + 2 \times 3 =$ ☐ [1]

(b) $5 \times 6 + 4 \times 2 =$ ☐ [1]

24 Fill in the missing numbers to make this subtraction correct.



[2]

25 Fatima has some pens.

She gives $\frac{3}{10}$ of her pens to her brother.

She gives her brother 12 pens.

How many pens is she left with?

.....pens [2]

26 The table shows the test scores for a group of 100 students.

Score	Number of students
0	0
1	4
2	0
3	12
4	12
5	16
6	20
7	12
8	8
9	10
10	6

(a) Which score is the mode?

..... [1]

(b) What percentage of the students scored less than 3 marks?

..... % [1]

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International Examinations

Cambridge International School

Check Point Exams

2016

Cambridge
CITC (Sudan)

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

3822347945

MATHEMATICS **0845/01**

Paper 1 **April 2016**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **15** printed pages and **1** blank page.

CAMBRIDGE International Examinations

1 Draw a ring around **all** the multiples of 5

105 150 501 551 555

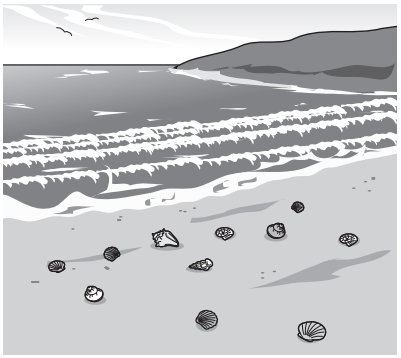
[1]

2 Draw a ring around **all** the calculations that total 100

35 + 65	47 + 53	21 + 89	88 + 12	36 + 54

[1]

3 Four children find 30 shells on a beach.

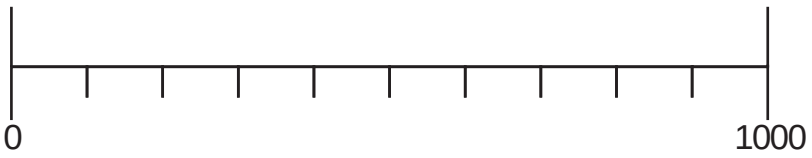


Wayne finds 7 shells, Leroy finds 8 shells and Vincent finds 3 shells.

How many shells does Conrad find?

..... shells [1]

4 Draw an arrow (↓) to show 850 on the number line.



[1]

5 Write these fractions in order starting with the **largest**.

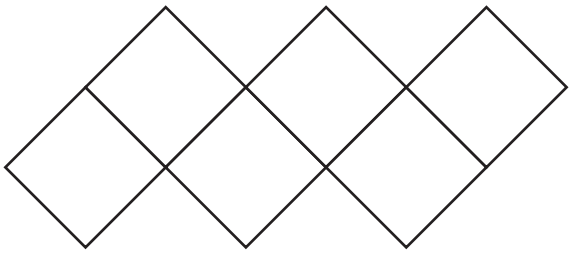
$\frac{5}{8}$ $\frac{8}{8}$ $\frac{3}{8}$ $\frac{2}{8}$

....

largest smallest

[1]

6 Which **3D shape** will be made from this net?



..... [1]

7 45 children are at a club.

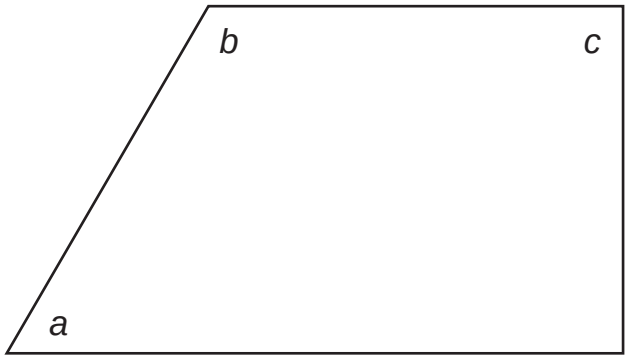
The leader forms teams of 6 children.

How many **whole** teams can the leader make?

..... teams [1]

8 Three angles *a*, *b* and *c* are marked on the diagram below.

Put the angles in order of size, starting with the smallest.



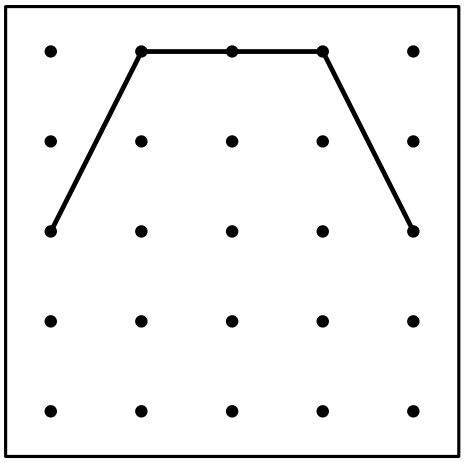
....

smallest largest

[1]

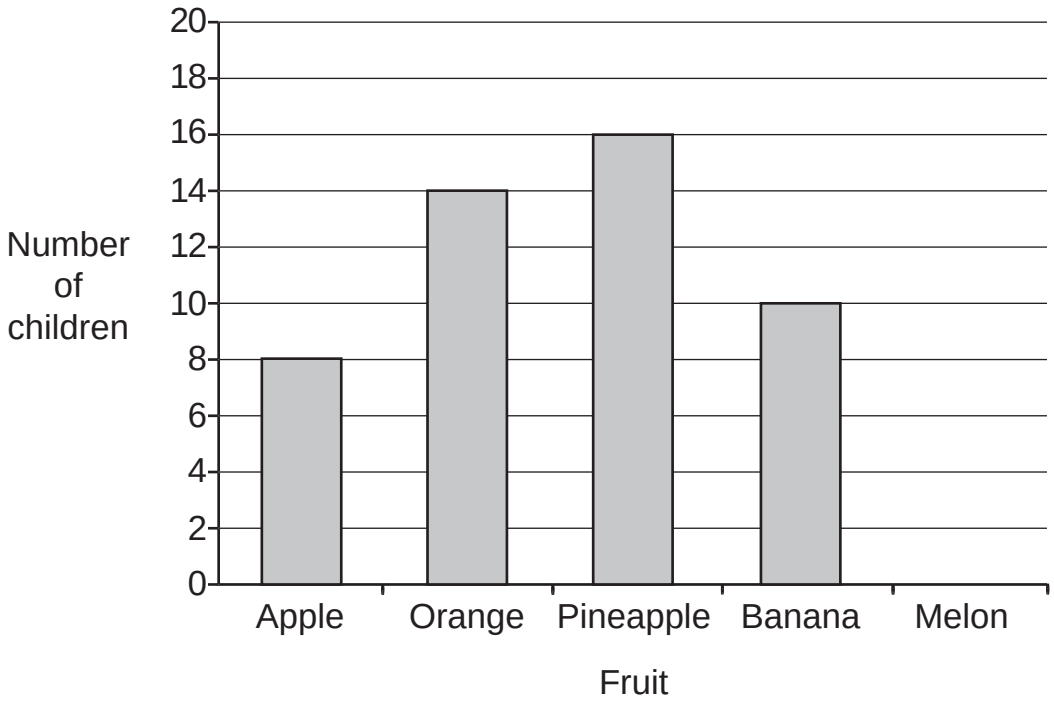
9 The lines on the grid form part of a pentagon.

Use the dots to complete the pentagon so it has **exactly** one right angle.



[2]

10 Mia asks some children to name their favourite fruit.
The bar chart shows some of her results.



(a) 7 of the children chose melon.

Draw a bar on the chart to show this. [1]

(b) How many children did Mia ask altogether?

..... [1]

11 Work out 400 × 7

..... [1]

12 Noah was born in 1994

What birthday did he have in 2003?

.....birthday [1]

13 Draw a ring around two numbers that total 1

0.6 0.7 0.5 0.2 0.3

[1]

14 Here are 4 digit cards.

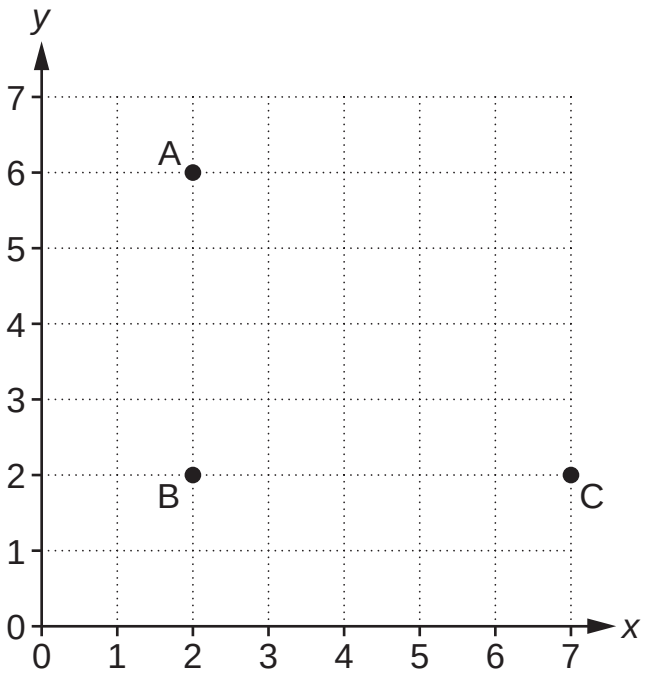
3	4	5	7

Use each card **once** to complete this number sentence.

	2	•		>	6		•	

[1]

15 A, B and C are three vertices of a rectangle.

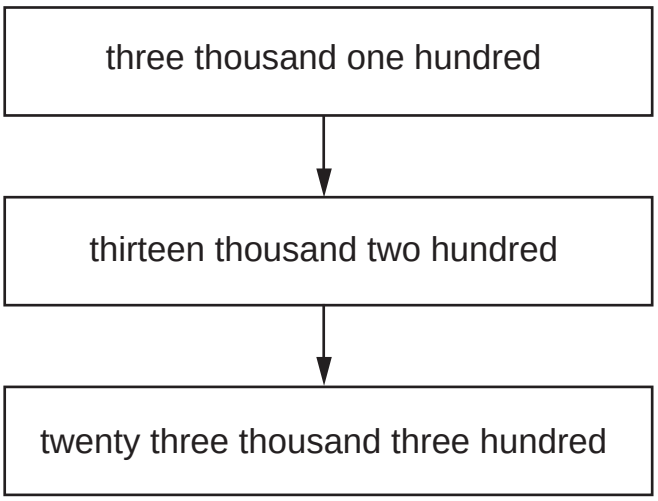


What are the co-ordinates of the fourth vertex?

(..... , ...) [1]

16 Here is a sequence of numbers.

The sequence continues in the same way.

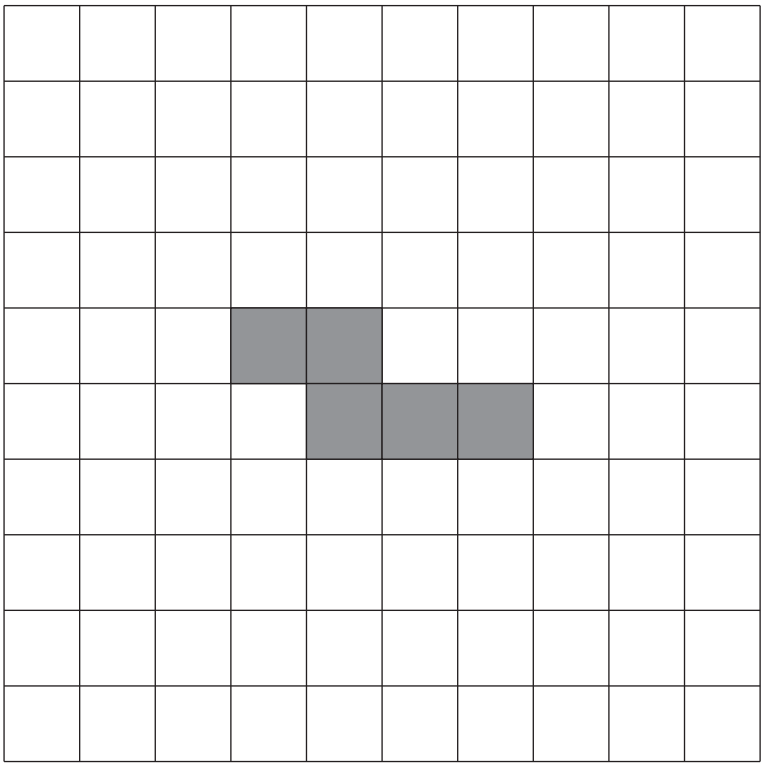


Write **in figures** the next number in the sequence.

..... [1]

17 This shape is translated 3 squares up and 2 squares to the right.

Draw the shape in its new position.



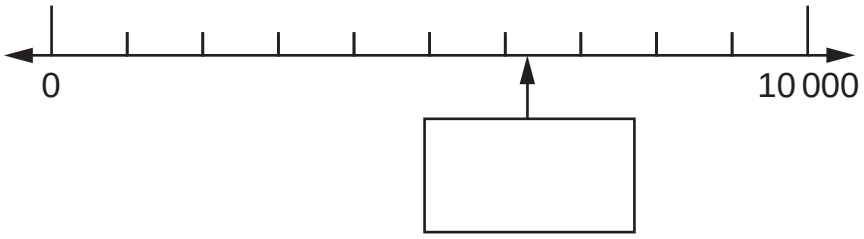
[1]

18 Draw a ring around **all** of the numbers that equal 9 when rounded to the nearest whole number.

8.07 8.8 9.45 8.2 9.54 8.54

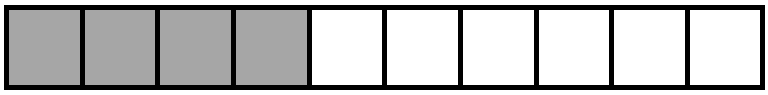
[1]

19 Here is a number line.



Estimate the number marked by the arrow. [1]

20 What percentage of this shape is shaded?



.....% [1]

21 A builder has 2960 bricks.

He uses 1994 bricks to build a wall.

How many bricks does he have left?

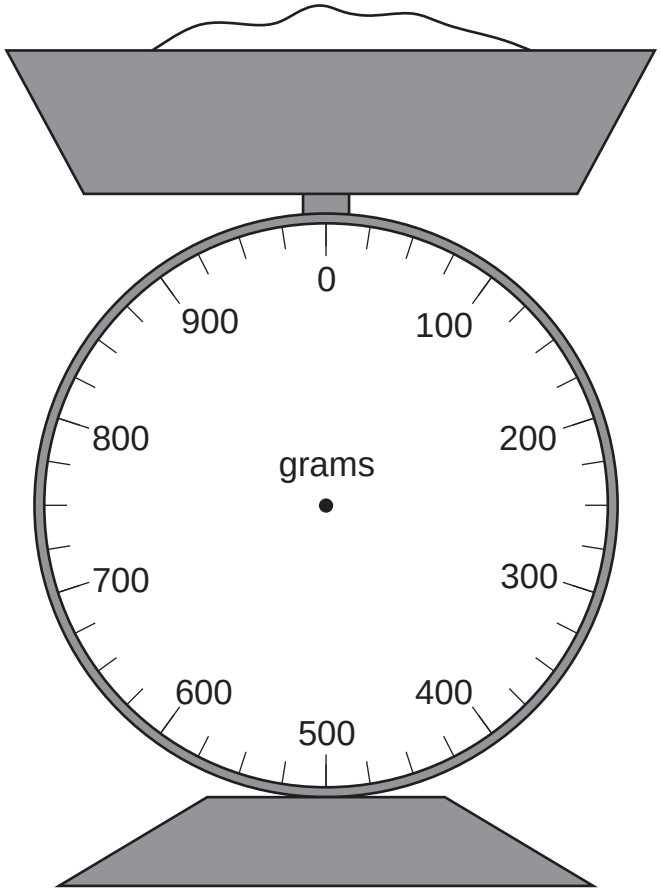
.....bricks [1]

22 Calculate 17.8 × 4

..... [1]

23 Mary weighs 650 grams of flour.

Draw an arrow (↓) on the scale to show 650 grams.



[1]

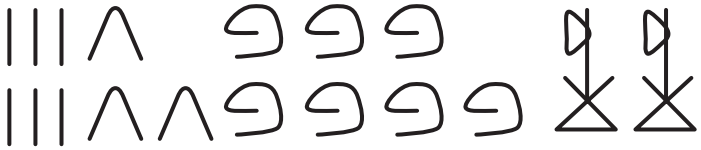
24 How many $10 notes make $9000?

..... [1]

25 The ancient Egyptians used these symbols to represent numbers.

1 **10** **100** **1000**

(a) Which number is represented by these symbols?

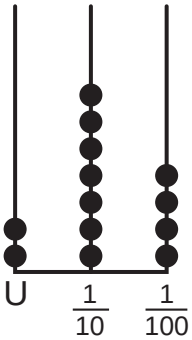


..... [1]

(b) Write 1342 using Egyptian symbols.

[1]

26 Write the decimal number shown on the abacus.

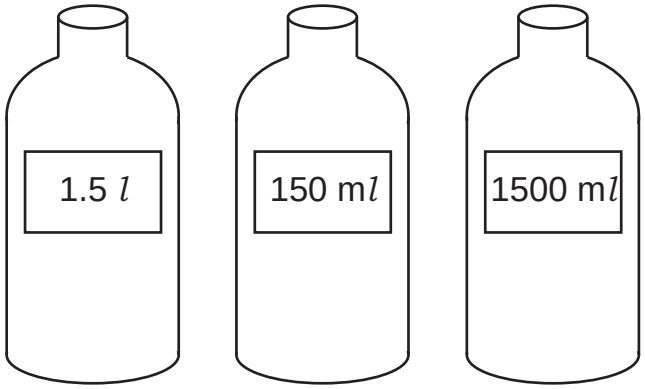


..... [1]

27 Here are three bottles.

Two bottles contain the same amount of liquid.

Put a cross (×) on the bottle that contains a different amount.



[1]

28 Katie measures the mass of 15 different cherries.

Here are her results in grams.

10 12 9 11 9 6 15 12 13 11 11 10 12 11 14

Use her results to find

(a) the range

..... grams [1]

(b) the mode

..... grams [1]

29 Here are five digit cards.

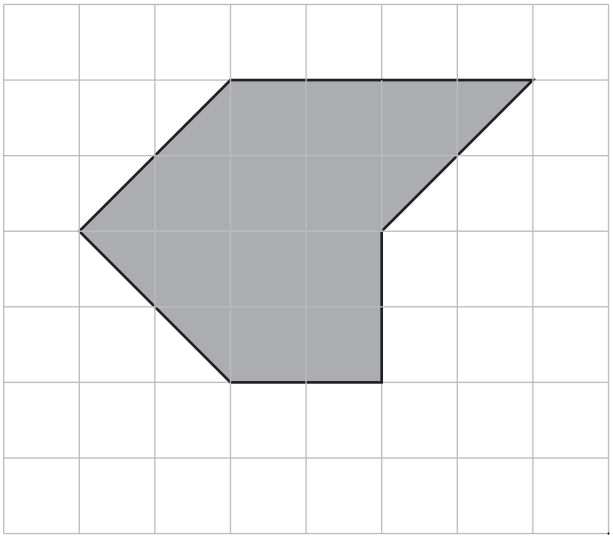
0	2	4	5	8

Use four of these cards to make this statement correct. No card can be used twice.

$$\frac{\square}{\square} = \square . \square$$

[1]

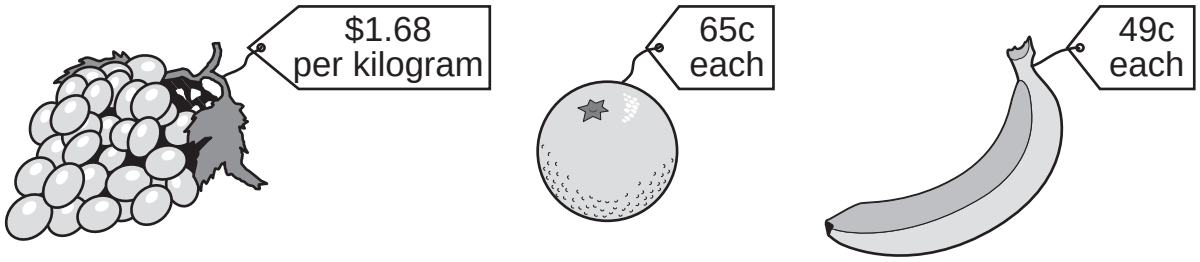
30 Here is a polygon on a 1 cm square grid.



What is the **area** of this shape?

..... cm^2 [1]

31 Khalid buys a kilogram of grapes, 2 oranges and a banana.



(a) How much is the total cost?

$ ..... [1]

(b) How much change would Khalid get from a $10 note?

$ ..... [1]

32 The difference in temperature between two towns is 6°C.

The temperature in one of the towns is 2°C.

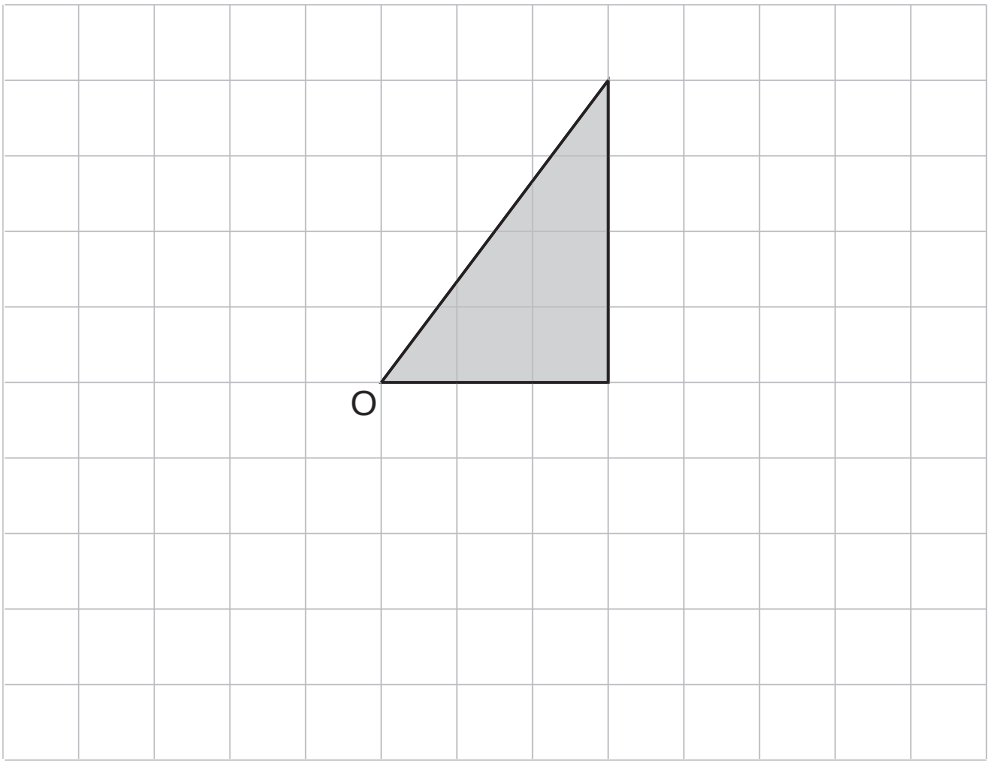
Write the two possible temperatures for the other town.

.....°C and .....°C [1]

33 Here is a triangle on a grid.

The triangle is rotated 90° clockwise about point O.

Draw the triangle in its new position.



[2]

34 Amira has broken her calculator.

She knows that 26 × 15 = 390

Show how she can use **this fact** to work out 13 × 15

.....

.....

..... [1]

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CANDIDATE NAME	
CENTRE NUMBER	
CANDIDATE NUMBER	

7092214593

MATHEMATICS **0845/02**

Paper 2 **April 2016**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator, Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

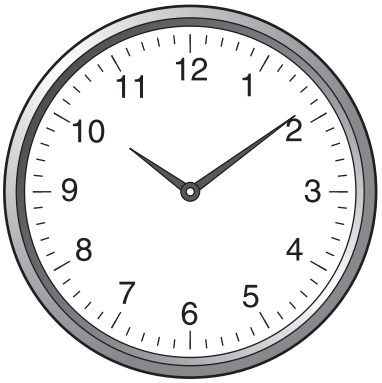
Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **14** printed pages and **2** blank pages.

CAMBRIDGE International Examinations

1 The clock shows the time Alan arrives at school one **morning**.



Tick (✓) the digital clock that shows this time.

1:50 am	2:09 pm	2:50 am	10:09 am
☐	☐	☐	☐

[1]

2 Draw a ring around all the lengths that are less than half a metre.

60 cm 43 cm 54 cm 26 cm 87 cm

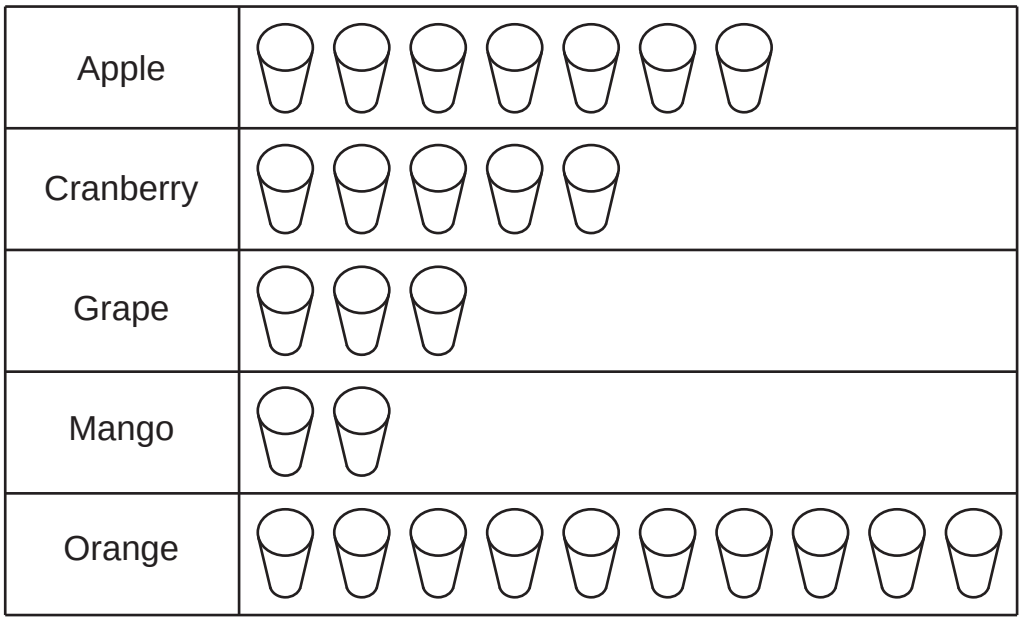
[1]

3 Write in the missing numbers.

(a) ☐ ÷ 12 = 27 [1]

(b) 16 × ☐ = 384 [1]

4 This pictogram shows how many cups of juice were sold in a day.



represents 5 cups

(a) How many cups of apple juice were sold?

..... cups [1]

(b) How many **more** cups of orange were sold than mango?

..... cups [1]

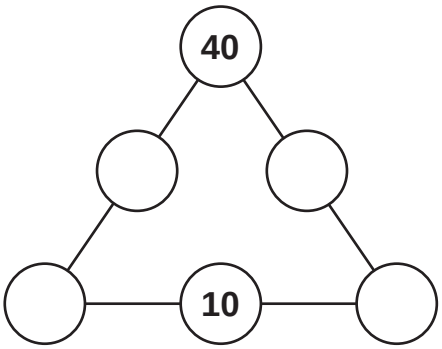
5 A doll's house is $\frac{1}{8}$ the size of a real house.

The length of the doll's house is 1.5 m.

How long is the real house?

..... m [1]

6 The numbers on each side of the triangle add up to 120



Use 4 **different** multiples of 10 to complete the diagram. [2]

7 4 children share 3 cakes equally.

How much cake will 1 child get?

..... cake [1]

8 Here are four digit cards.

4	7	2	6

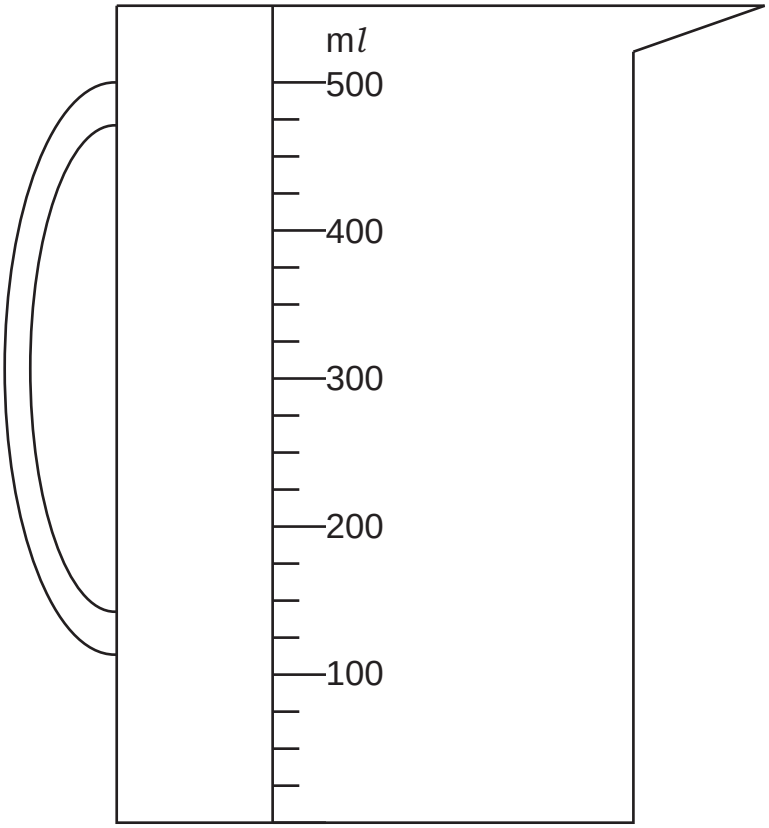
Use each card once to complete this calculation.

□□ • □ + □□ • □ = 10

[1]

9 A bottle of orange juice contains 230 ml.

Two of these bottles are poured into this jug.



Draw an arrow (→) to show the level of juice in the jug.

[1]

10 Here are some statements about odd and even numbers.

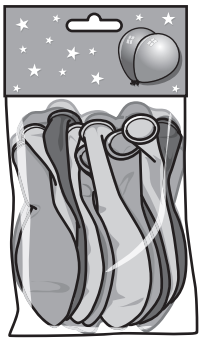
Tick (✓) the correct box next to each statement.

The first one has been done for you.

	True	Not true
odd + odd = odd		✓
even – odd = even		
odd × even = even		

[1]

11 There are 34 balloons in a pack.



Sharifa has two packs.

Kimi and Neera share a pack equally.

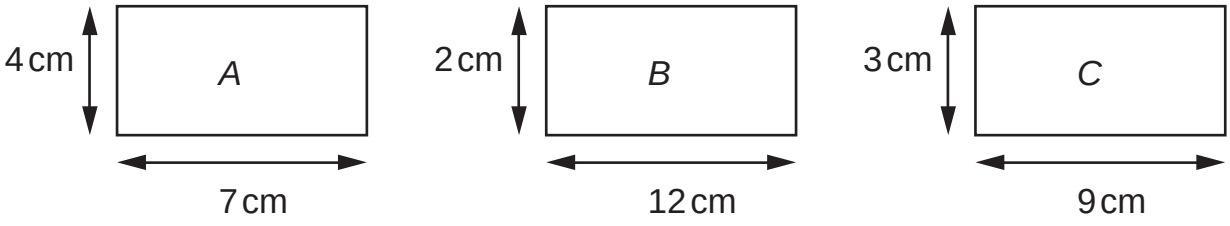
How many balloons does each child have?

Sharifa has ..... balloons

Kimi has ..... balloons

Neera has ..... balloons [1]

12 Look at the three rectangles.



Not drawn to scale

Which rectangle has the largest area?

Show calculations to explain your answer.

..... [2]

13 Here is a recipe for Choco Milkshake.

Serves 2
Makes 400 ml

2 scoops ice cream
250 ml milk
30 ml melted chocolate

(a) Ron makes enough milkshake for 6 people.

How much melted chocolate does he use?

..... ml [1]

(b) Ron has 600 ml of milkshake left.

How much ice cream does it contain?

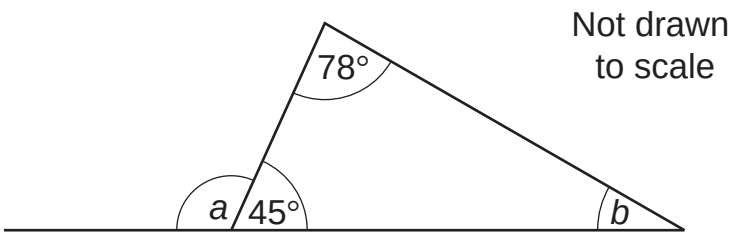
..... scoops [1]

14 Draw a ring around the square number.

5 10 18 26 36 42

[1]

15 Look at the diagram.



(a) Calculate the size of angle *a*.

a = ... ° [1]

(b) Calculate the size of angle *b.*

b = ... ° [1]

16 Put one of these signs into each box to make the calculation correct.

= **>** **<**

4 × 5 ☐ 3 × 8

13 × 17 ☐ 15 × 15

256 ÷ 8 ☐ 6 + 7 + 8 + 9

[1]

17 Calculate 158 ÷ 5

(a) Give your answer as a decimal.

..... [1]

(b) Rewrite the answer as a mixed number.

..... [1]

18 Write the missing number in the box.

$37.5 \times 6 = 25 \times$ ☐

[1]

19 Here are four calculations.

16.4 × 3.3

140.643 ÷ 2.7

167.36 ÷ 3.2

17.6 × 3

(a) Which calculation gives the **largest** answer?

..... [1]

(b) Which calculation gives the **smallest** answer?

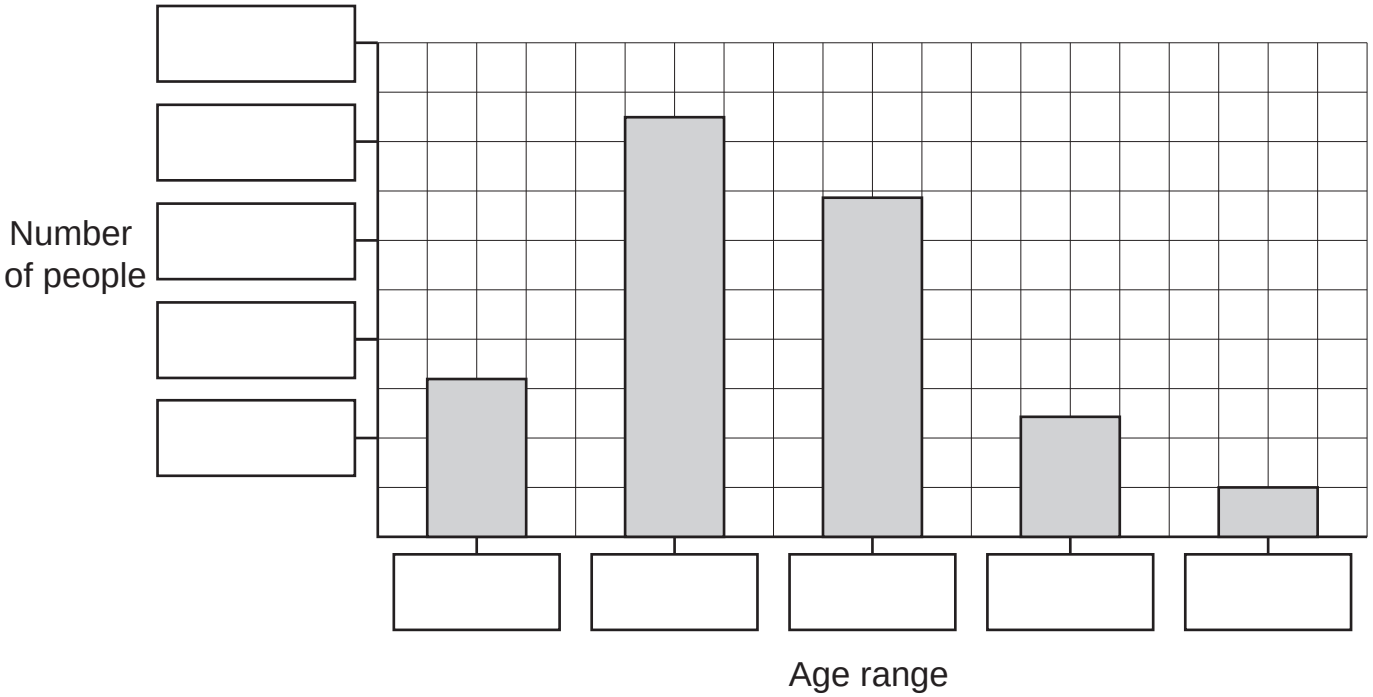
..... [1]

20 The table shows the population of a small town by age.

Age range	Number of people
0 – 19	3200
20 – 39	8500
40 – 59	6920
60 – 79	2418
80+	1005

The bar chart shows the same information.

Label the bar chart.



[2]

21 Here is part of a bus timetable.

Fenton	08 38	09 25	10 06	10 50
Kibstock	09 07	10 02	10 38	11 25
Pentwell	09 35	10 37	11 05	11 47
Leadtown	10 11	11 09	11 48	12 14

(a) Mr Hasan travels from Fenton to Leadtown.
He catches the 08 38 bus.

How long will his journey last?

Give units with your answer.

..... [1]

(b) Mrs Shah lives in Kibstock and needs to be in Pentwell by 11 35

What is the latest bus she can catch from Kibstock?

..... [1]

22 The product of two **prime** numbers is 39

What are the two numbers?

..... [1]

23 Here are six number cards.

0.63	6.03	6.3	63
	10	100	

Use four of these cards to complete the calculations.
You can only use each card once.

0.63 × ☐ = ☐

☐ ÷ 100 = ☐

[1]

24 Jamie chooses two 2-digit numbers.

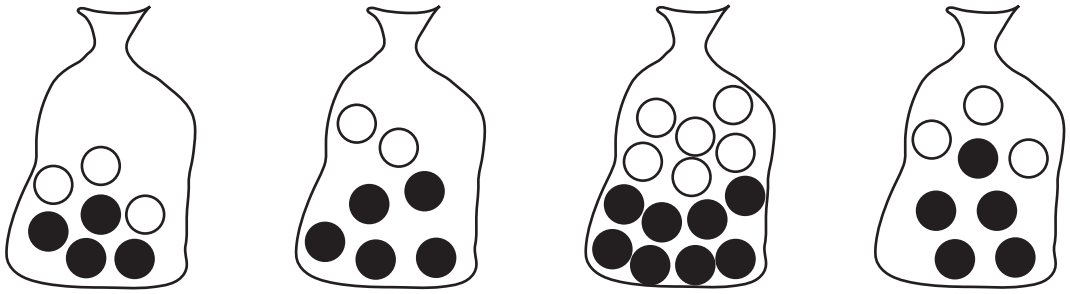
They are both multiples of 10

Their product is 5600

What numbers could they be?

..... and ..... [1]

25 Here are four bags containing black and white beads.



bag A bag B bag C bag D

Complete the following sentences.

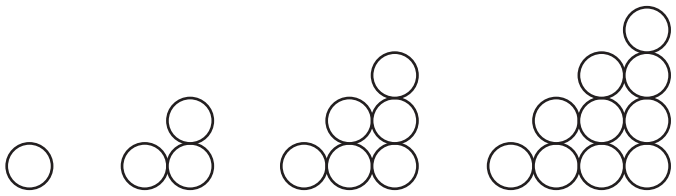
(a) The probability of picking a black bead is the same from bag ..... as from bag .....

[1]

(b) The best chance of picking a black bead is from bag .....

[1]

26 Rebekah is making a number pattern using counters.



(a) Which numbers does the pattern represent?

..... [1]

(b) How many counters will there be in the 6th pattern?

..... [1]

27 Write **all** the three-digit numbers between 100 and 160 which are

- divisible by 2
  and
- **not** divisible by 4
  and
- divisible by 5

..... [2]

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

0915645572

MATHEMATICS **0845/01**

Paper 1 **October 2016**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

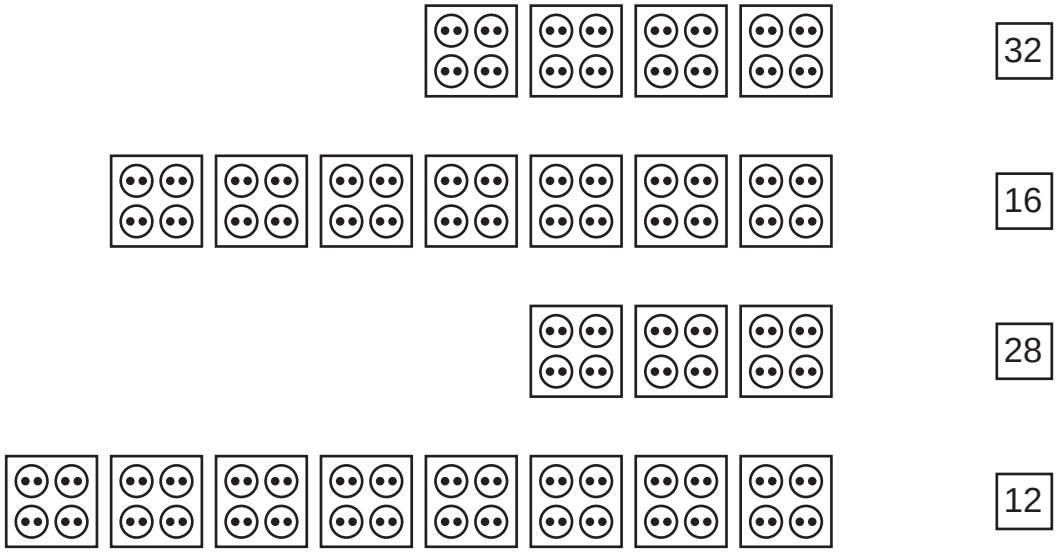
Answer **all** questions.
NO CALCULATOR ALLOWED.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **15** printed pages and **1** blank page.

1 Buttons are sold in packs of four.

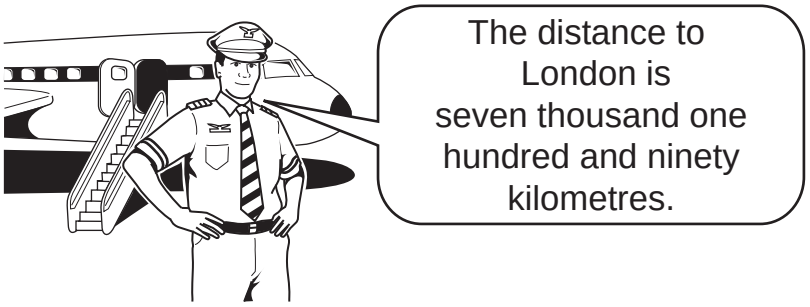
Draw a line to match each row of packs to the correct total number of buttons.



[1]

2 An aeroplane flies from Mumbai to London.

The pilot says,



Write this distance in figures.

..... km [1]

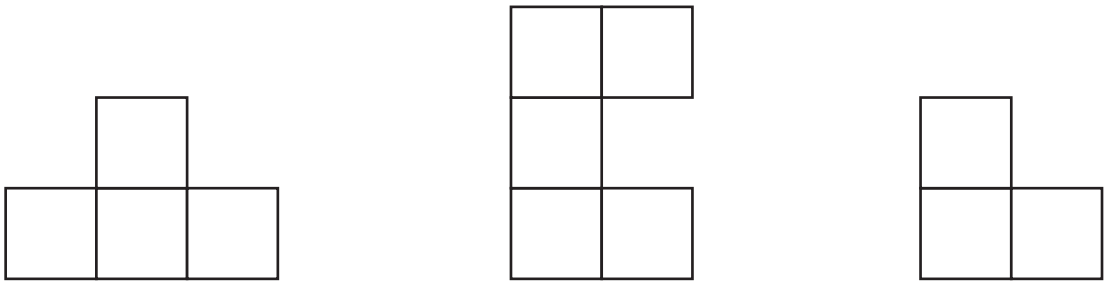
3 A bag holds 9 oranges.

Orla buys 8 bags of oranges.

How many oranges does she buy altogether?

.....oranges [1]

4 Draw the line of symmetry on each diagram.



[2]

5 Draw a ring around the number that is ten times bigger than five hundred and four.

504 514 5004 5040

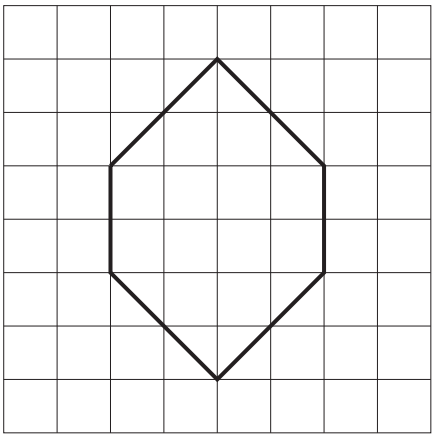
[1]

6 Write the missing number in the box.

3340 – ☐ = 2840

[1]

7 Here is a shape.



How many of the inside angles are right angles?

..... [1]

8 Milly has circled all the multiples of 4 on this grid.

1	2	3	(4)	5	6	7	(8)	9	10
11	(12)	13	14	15	(16)	17	18	19	(20)
21	22	23	(24)	25	26	27	(28)	29	30
31	(32)	33	34	35	(36)	37	38	39	(40)
41	42	43	(44)	45	46	47	(48)	49	50
51	(52)	53	54	55	(56)	57	58	59	(60)

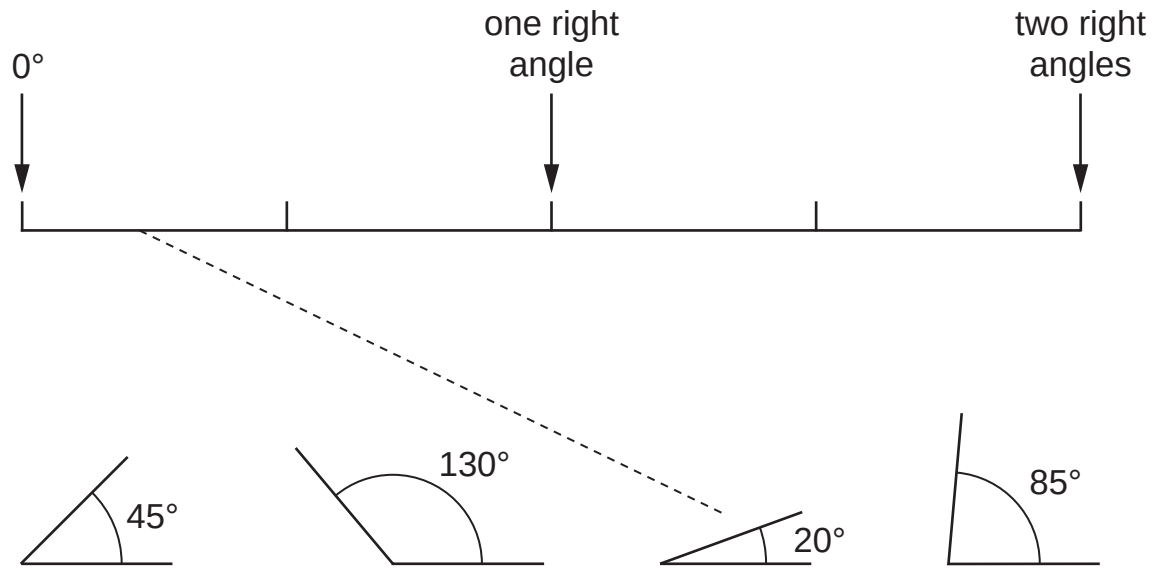
(a) **Shade** all the multiples of 5 on the grid. [1]

(b) Which of these numbers are multiples of both 4 **and** 5?

..... [1]

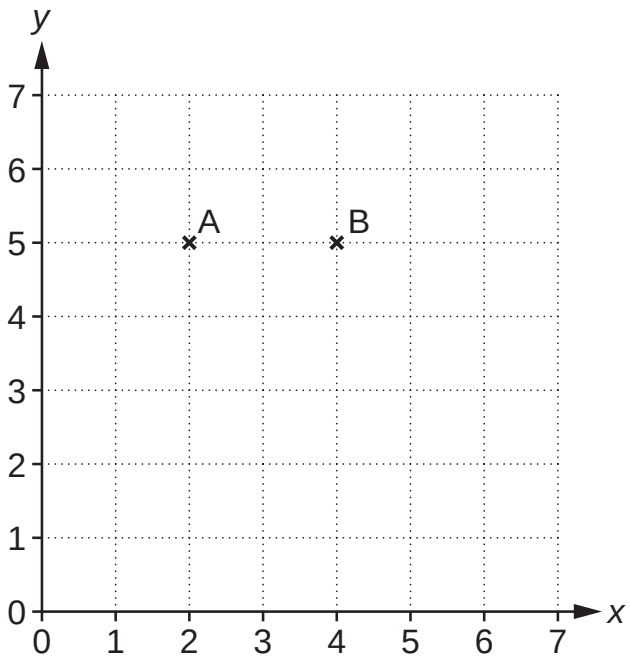
9 Draw a line to show the correct position of each angle on the line.

One has been done for you.



[1]

10 The grid shows points A and B.



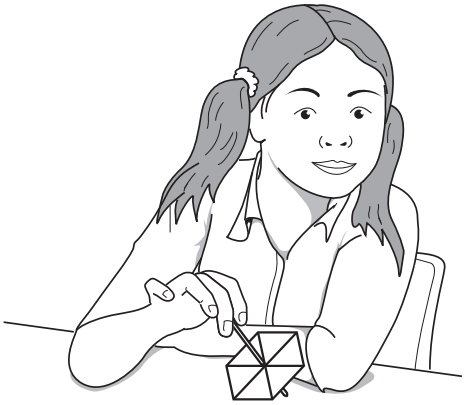
Bruno draws a rectangle ABCD on this grid.

D is the point (2, 1).

What are the co-ordinates of point C?

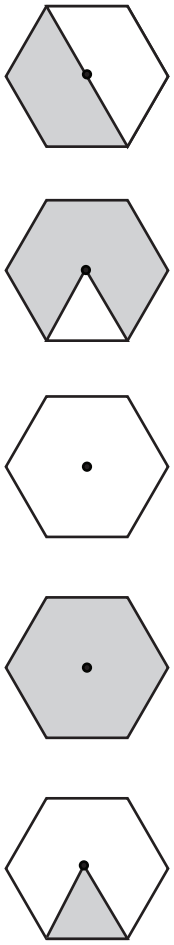
(..... , ...) [1]

11 Mia has some spinners.



Draw a line to show the probability of each spinner landing on the shaded part.

One has been done for you.



impossible

unlikely

even chance

likely

certain

[2]

12 (a) A riverboat can carry 224 passengers.

There are 137 on the boat.

How many more passengers can it carry?

..... passengers [1]

(b) Graham borrows $126 from his father to buy a bicycle.

He pays back $7 each week.

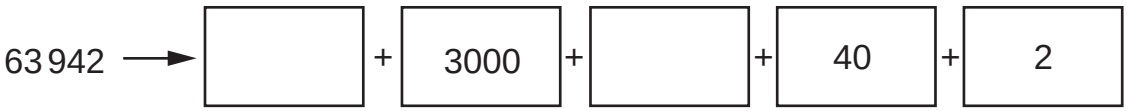
How many weeks will it take to pay back his father?

..... weeks [1]

(c) Work out 356 ÷ 100
Give your answer as a decimal.

..... [1]

13 Complete the place value diagram.

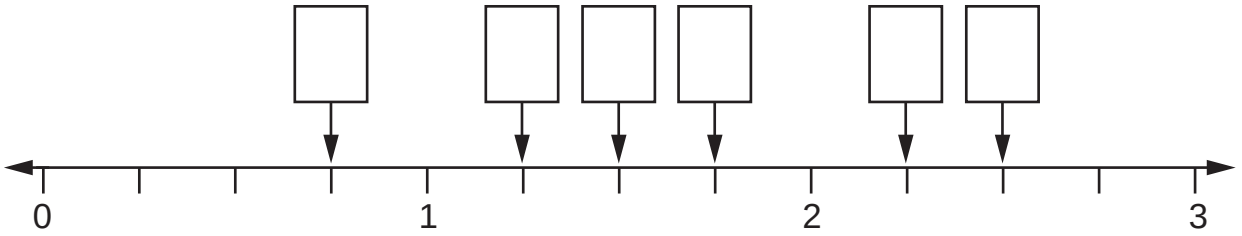


[1]

14 Write each of these fractions in the correct box on the number line.

$\frac{7}{4}$ $\frac{3}{4}$ $\frac{9}{4}$ $\frac{5}{2}$

You will not need all of the boxes.



[2]

15 Judy knows that 20 × 18 = 360

Show how she can **use this fact** to work out the answer to 19 × 18

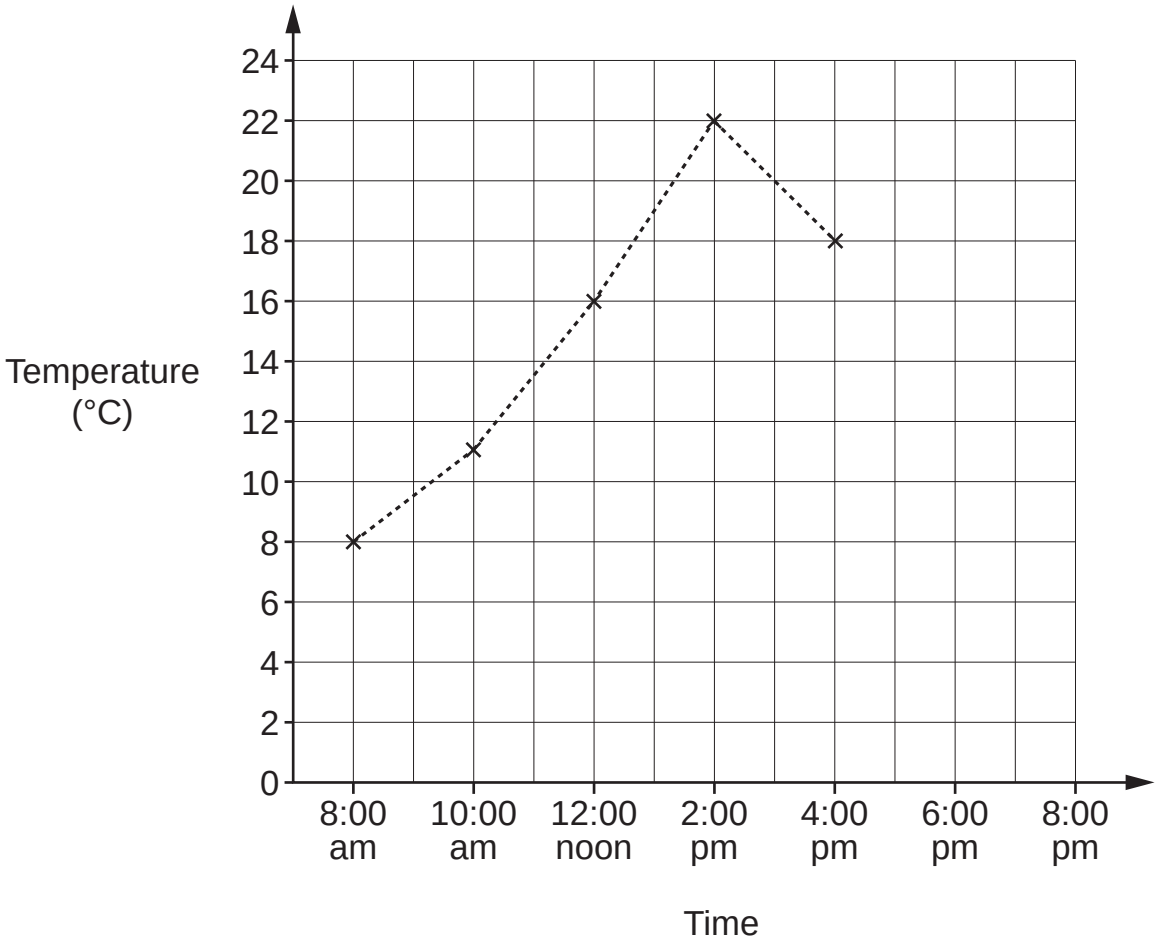
.....

..... [1]

16 The temperature in a greenhouse was measured during the day.

Time	Temperature (°C)
8:00 am	8
10:00 am	11
12:00 noon	16
2:00 pm	22
4:00 pm	18
6:00 pm	15
8:00 pm	10

(a) Plot the missing data on the line graph. [1]



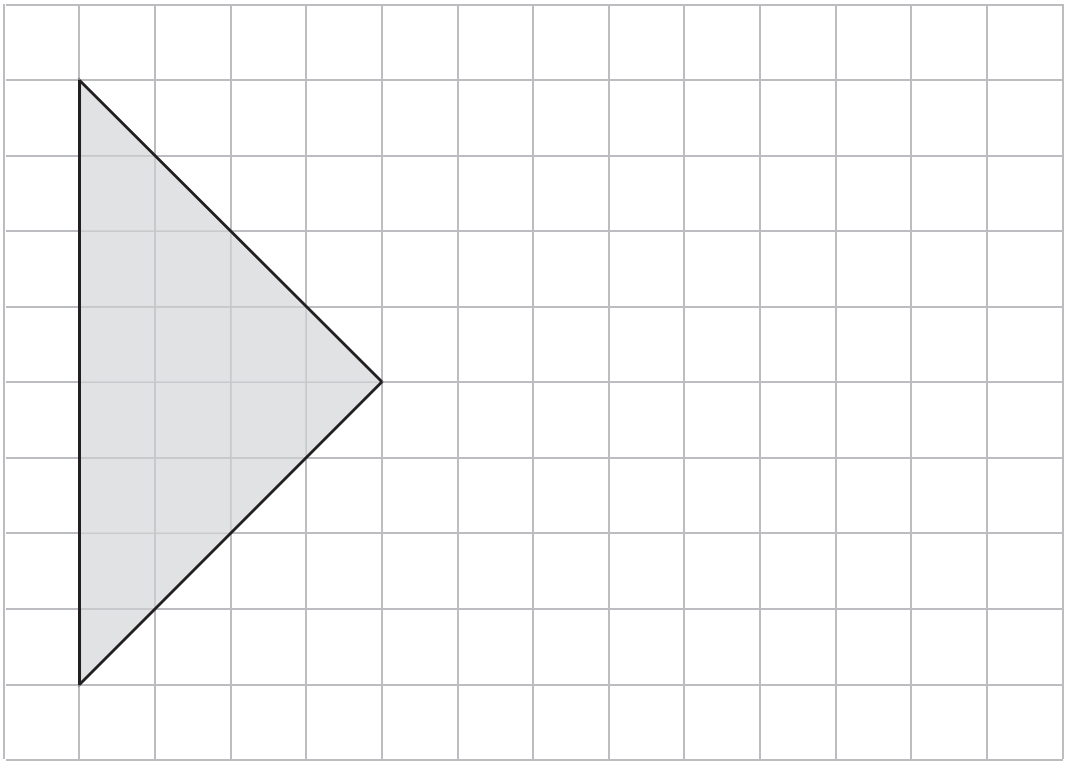
(b) Estimate the temperature at 1:00 pm.

..... °C [1]

17 Here is a shape drawn on a centimetre square grid.

Use the grid to draw a **square** with the same area.

Use a ruler.



[1]

18 Chairs are put in rows of 30 at a concert.

There are 20 rows.

How many chairs are there altogether?

.....chairs [1]

19 Join each calculation to the correct box.

64 × 10

odd

37 × 4

63 × 7

even

14 × 3

[1]

20 Here are some fractions.

$\frac{4}{6}$ $\frac{5}{12}$ $\frac{45}{100}$ $\frac{10}{20}$ $\frac{6}{10}$

Write each fraction in the correct place in the table.

Less than one half	Equal to one half	Greater than one half

[2]

21 Draw a ring around the two numbers that add up to 1

0.36 0.38 0.46 0.48 0.64 0.74

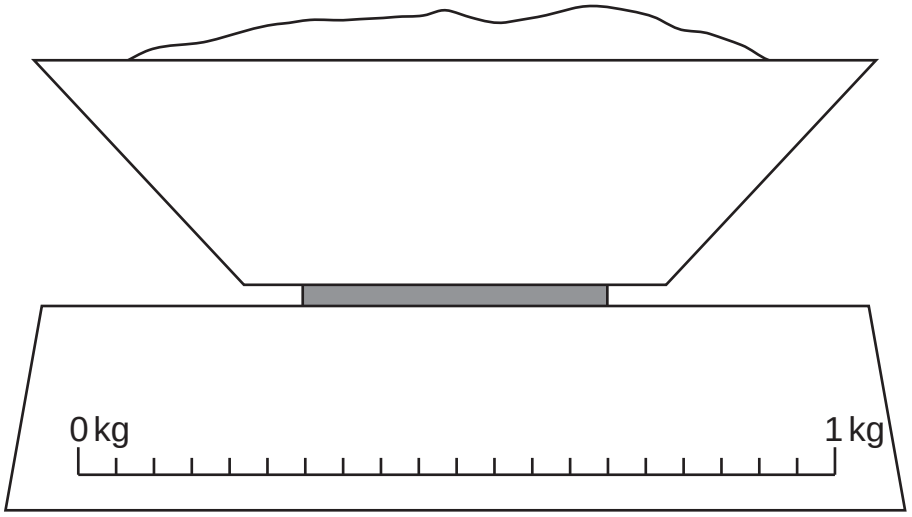
[1]

22 Write $\frac{18}{30}$ in its simplest form.

..... [1]

23 Mary weighs 650 grams of rice.

Draw an arrow (↓) on the scale to show 650 grams.



[1]

24 There were 315 passengers on a plane.

One seventh of the passengers got off in Madrid.

The rest flew on to Rome.

How many passengers flew on to Rome?

.....passengers [2]

25 Measure this line accurately in millimetres.

.....mm [1]

26 Here is a calendar for the month of October.

October						
S	**M**	**T**	**W**	**T**	**F**	**S**
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

What will the date be five weeks after October 10th?

..... [1]

27 The table shows the number of days when it rained each month.

Month	Number of days when it rained
January	21
February	14
March	12
April	14
May	10
June	9
July	11
August	14
September	20
October	23
November	24
December	22

(a) What is the mode of the data?

..... [1]

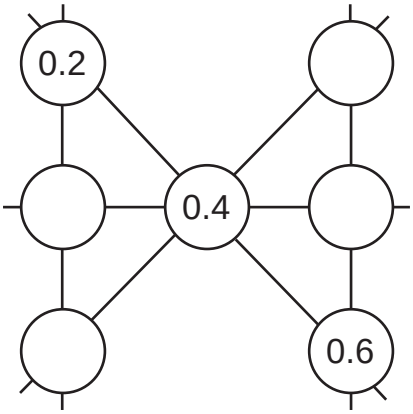
(b) What is the range of the data?

..... [1]

28 Tara has seven counters with numbers on them.

She places each one onto this diagram so that each line of 3 counters has the same total.

Complete the diagram.



[2]

29 Some of these numbers are factors of 18

Draw a ring around them.

1.8 3 9 12 18 36

[1]

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

5851095995

MATHEMATICS **0845/02**

Paper 2 **October 2016**

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator, Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.
Calculator allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **16** printed pages.

CAMBRIDGE International Examinations

1 Complete the calculations.

(a) Double 37 = ☐

[1]

(b) ☐ = Half of 96

[1]

2 Abdul asked some children to choose their favourite fruit.

Fruit	**Number**
Bananas	◯◯◗
Oranges	◯◯◯◯
Peaches	
Apples	◯◯

◯ equals 10 children

(a) How many children chose apples?

.....children [1]

(b) 15 children chose peaches.
Show this on the chart. [1]

3 Write a whole number that lies between 1289 and 1293

1289, ...,1293 [1]

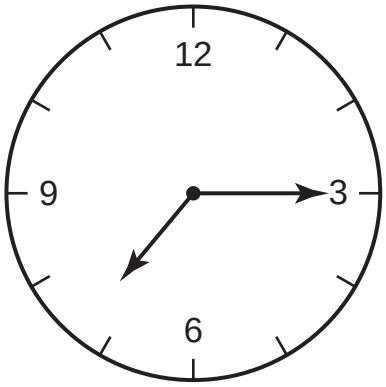
4 There are 365 days in a year.

Students attend school on 186 days.

How many days do they **not** attend school?

..... days [1]

5 The clock shows the time when Aysha leaves for school in the morning.



(a) It takes her 35 minutes to walk to school.

What time does she arrive at school?

..... am [1]

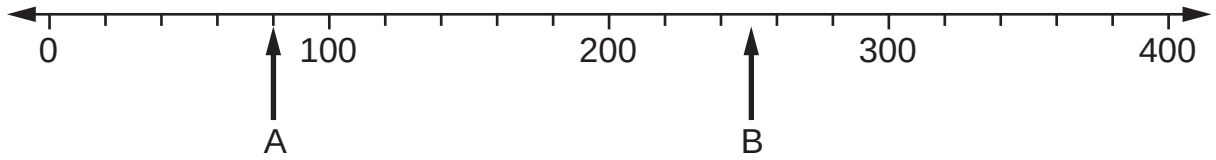
(b) The bell rings for lunch at 12:30 pm.

Aysha has 45 minutes for lunch.

What time does lunch **finish**?

..... [1]

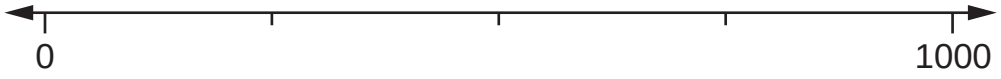
6 **(a)** Write down the number that each arrow points to.



A = ... B = ... [1]

(b) Estimate where the number 350 lies on this scale.

Mark the position with an arrow (↓).



[1]

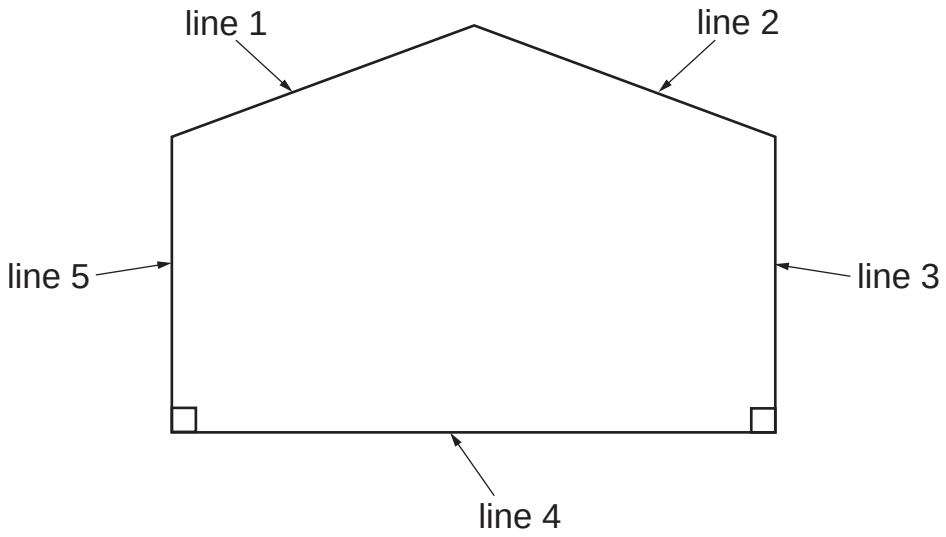
7 Draw a ring around the value of the digit **two** in this number.

543.27

2 hundredths 2 tenths 2 tens 2 hundreds

[1]

8 This shape is made from 5 straight lines.



Complete these statements.

The first has been done for you.

Line 1 is equal in length to line ..2.. .

Line ..... and line ..... are parallel.

Line 5 is perpendicular to line ..... .

[1]

9 Write the missing numbers.

(a) 13 × 100 = 130 × ☐ [1]

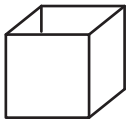
(b) 260 ÷ ☐ = 2600 ÷ 100 [1]

10 Complete this calculation.

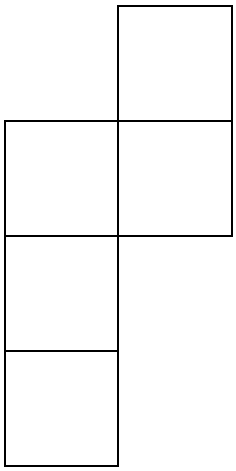
$$6 \times 124 = 3 \times \square \times 124$$

[1]

11 Here is a drawing of an open top cube.

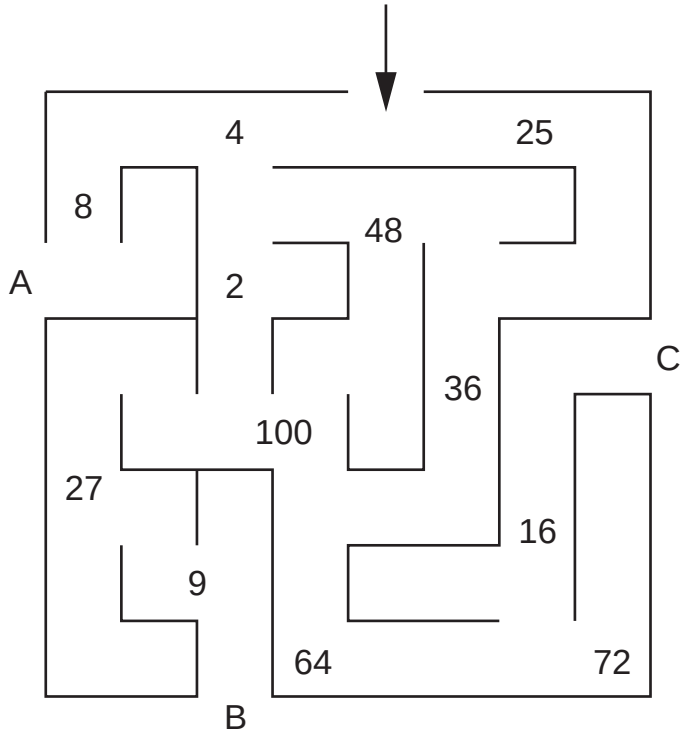


Here is the net from which it is made.



Put a tick (✓) on the square which is its base. [1]

12 Here is a maze.



Start from the arrow (↓).

Draw a path through the maze that only passes square numbers.

[1]

13 Here are three digit cards.

2	4	5

Place each digit card in a box so that the answer to the calculation is a **1-digit** whole number.

□.□ × □ =

[1]

14 Draw a ring around all the **prime** numbers.

4 7 9 11 14 19 20

[1]

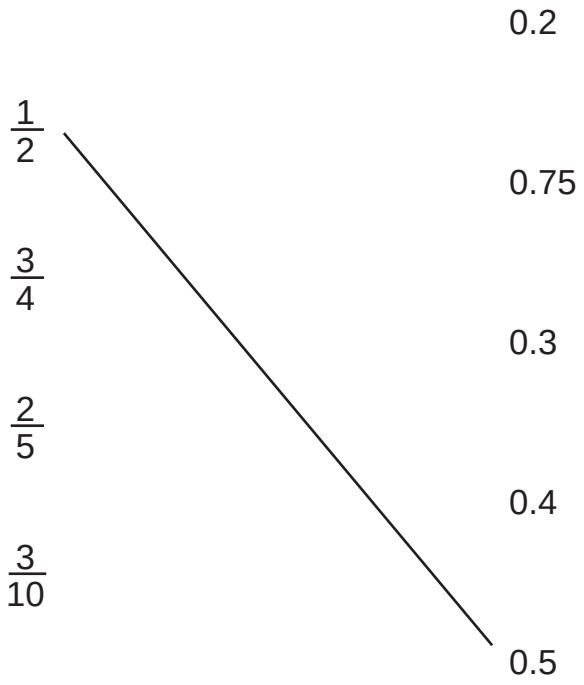
15 Complete this calculation.

	5		.	4
+		3	.	
1	2	3	.	2

[2]

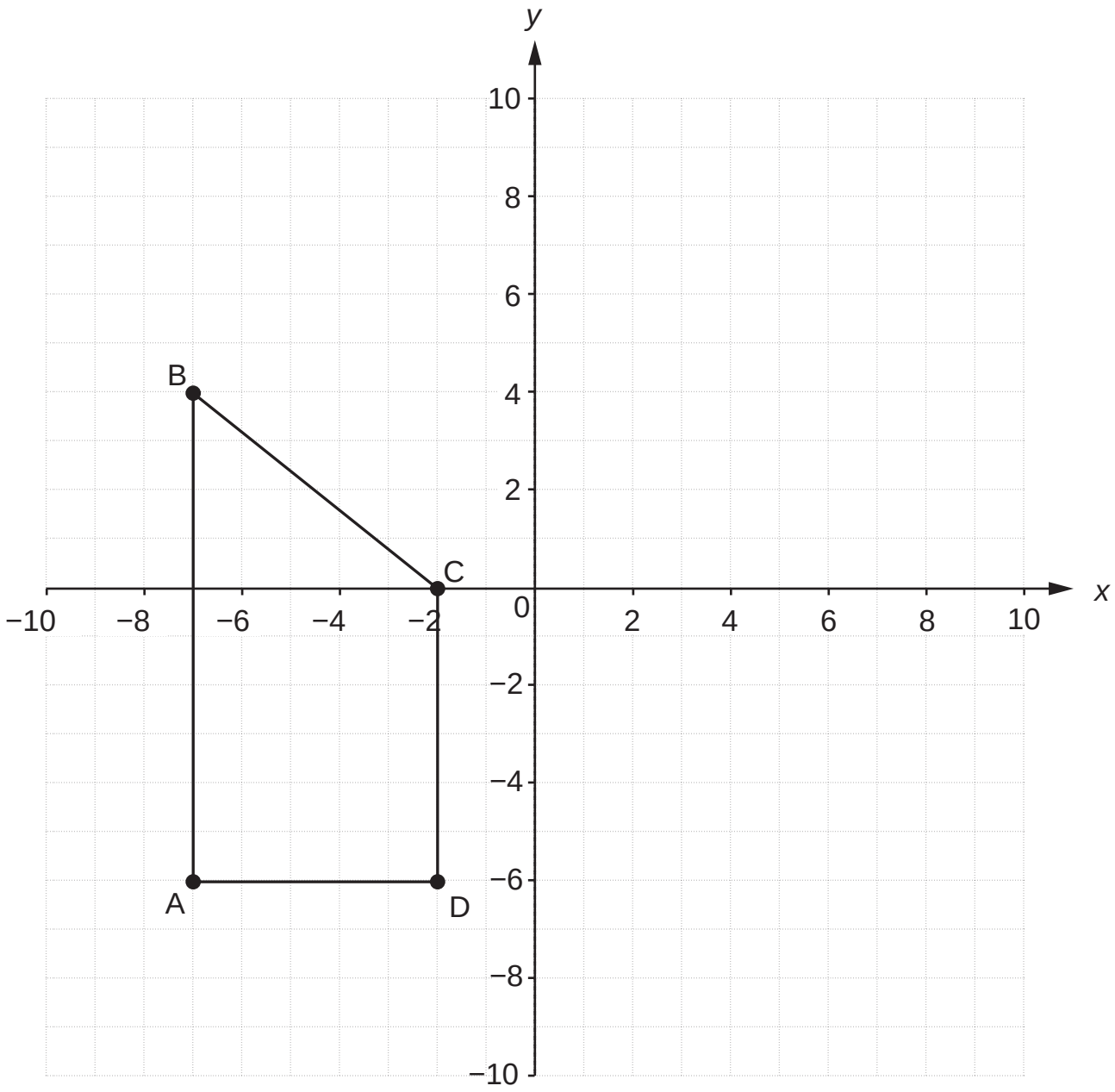
16 Match each fraction to the equivalent decimal.

The first one has been done for you.



[1]

17 Here is a shape drawn on a co-ordinate grid.



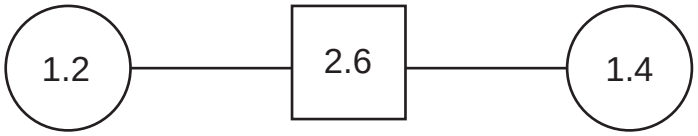
(a) What are the co-ordinates of point A?

(..... , ...) [1]

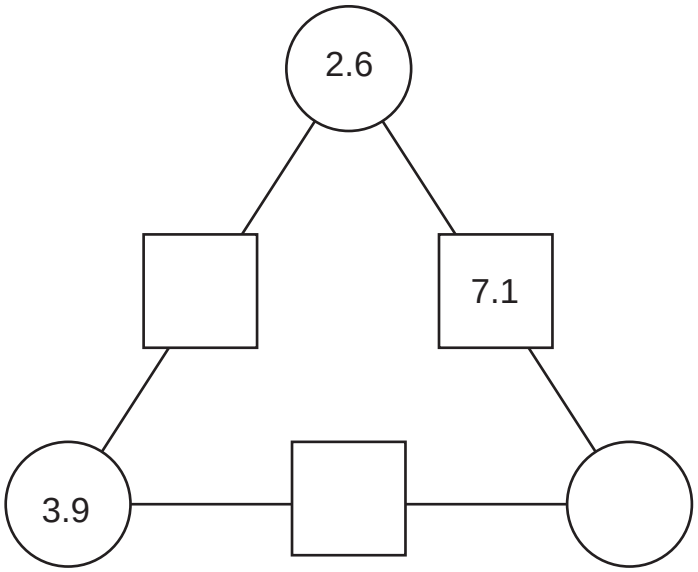
(b) The shape is translated 3 squares right and 5 squares up.

Draw the new position of the shape on the grid. [1]

18 In the diagram the sum of the numbers in the circles is written in the square.



Use the same rule to complete this diagram.



[1]

19 Here is a number sequence.

It continues in the same way.

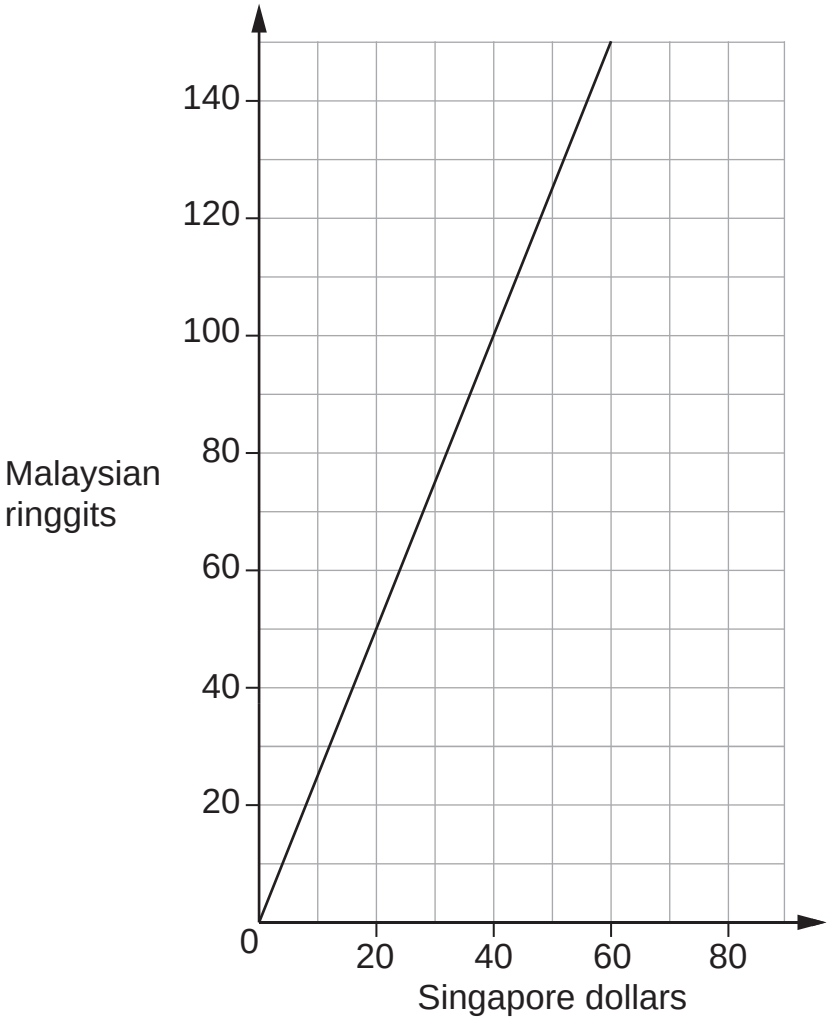
Write in the missing numbers.

☐, ☐, 0.8, 1.3, 1.8, ☐

[1]

20 The currency in Malaysia is ringgits.
The currency in Singapore is dollars.

The graph shows how many ringgits you get for different numbers of dollars.



(a) How many ringgits do you get for 30 dollars?

..... ringgits [1]

(b) How many dollars do you get for 250 ringgits?

..... dollars [1]

21 Two ice creams and a chocolate bar cost $2.60

One ice cream costs 78 cents.

What does a chocolate bar cost?

$ ..... [1]

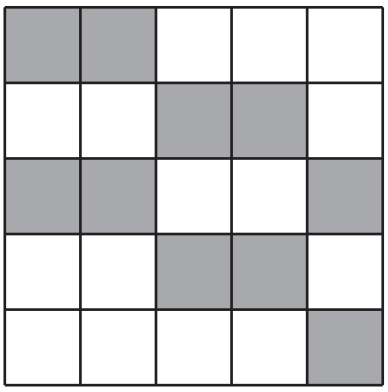
22 Harry enters a long jump competition.

His jump is given to 3 decimal places and lies between 4.17 m and 4.18 m.

Write a possible length of Harry's jump to 3 decimal places.

..... m [1]

23 What **percentage** of the shape is shaded?



..... % [1]

24 Paul says that $\frac{1}{3}$ is equivalent to 30%.

Is he correct?

Yes ☐ No ☐

Explain how you know.

[1]

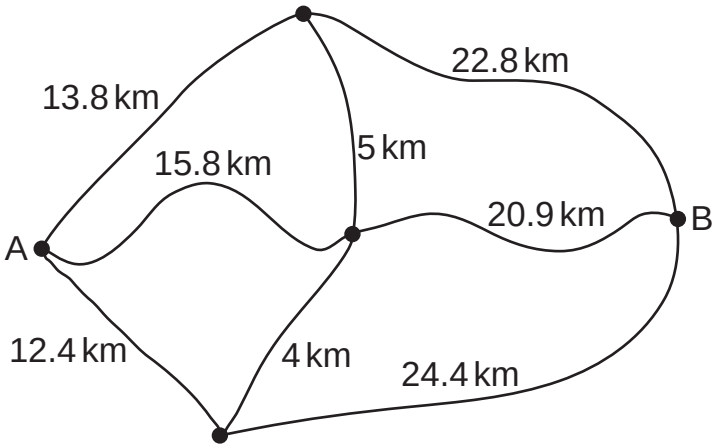
25 ☐ and ○ are different 2-digit numbers that are multiples of 10

☐ × ○ = 5400

What could the values of ☐ and ○ be?

☐ = ... ○ = ... [1]

26 A and B are two towns.



Not drawn to scale

(a) What is the length of the **shortest** route between the two towns?

.....km [1]

(b) Two different towns are 36 **kilometres** apart.

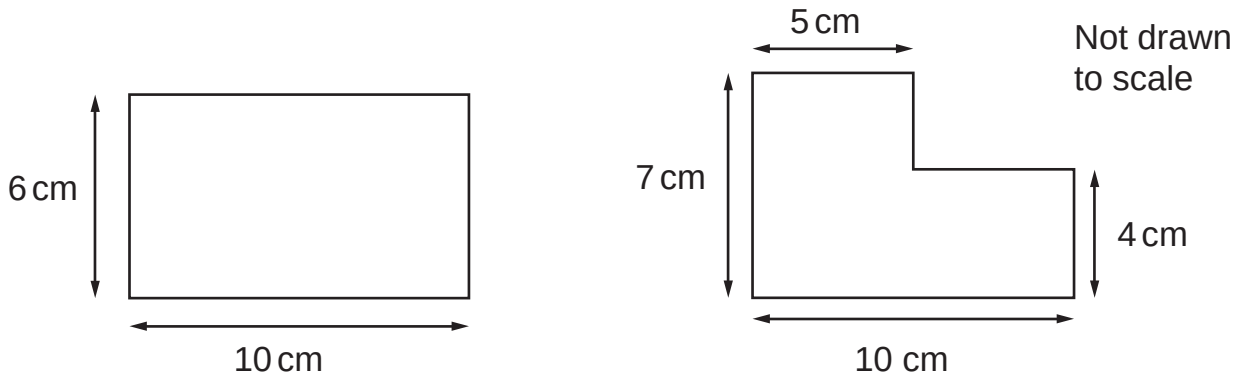
Write this distance in **miles**.

8 kilometres is approximately 5 miles

.....miles [1]

27 Look at the two shapes.

Put a tick (✓) in the shape that has the larger perimeter.



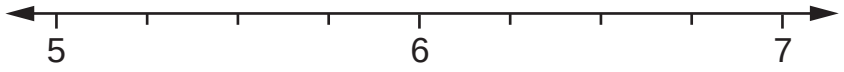
Show calculations to explain your answer.

.....

..... [2]

28 Draw lines to join the mixed numbers to the correct positions on the number line.

$5\frac{1}{4}$ $6\frac{7}{8}$



[1]

29 Sean has a collection of **less than 50** books.

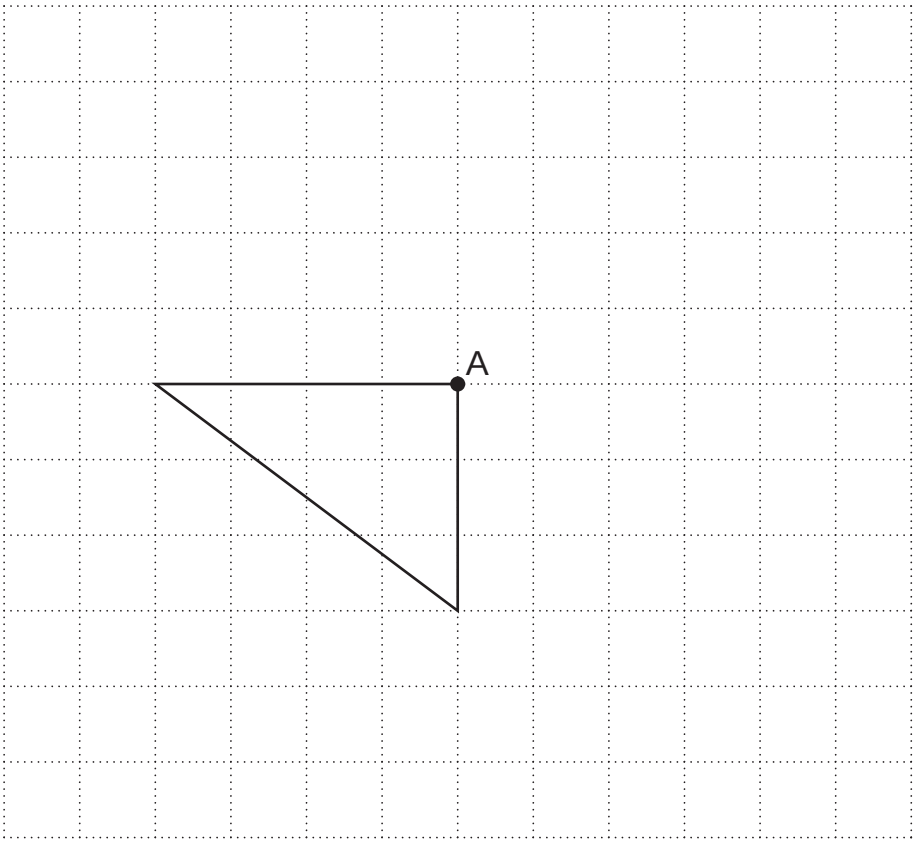
He counts his books in fours and has one left over.

He counts his books in fives and has three left over.

How many books could Sean have?

..... books [1]

30 Here is a triangle on a grid.



It is rotated about point A through 90º clockwise.

Draw the new position of the triangle on the grid. [1]

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge Primary Checkpoint

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

MATHEMATICS **0845/01**

Paper 1 **For Examination from 2012**

SPECIMEN PAPER

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

Answer **all** the questions.

Calculators are **not** allowed.
The numbers of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
1	
2	
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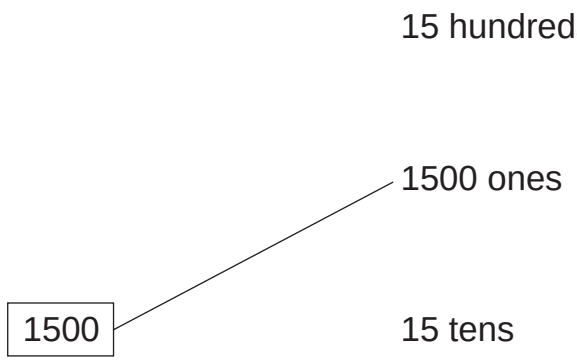
13	
Total	

This document consists of **13** printed pages and **1** blank page.

UNIVERSITY of CAMBRIDGE International Examinations

For Examiner's Use

1 Draw two **more** lines to match 1500 to numbers with the same value.



15 hundreds

1500 ones

15 tens

150 tens

150 hundreds

[1]

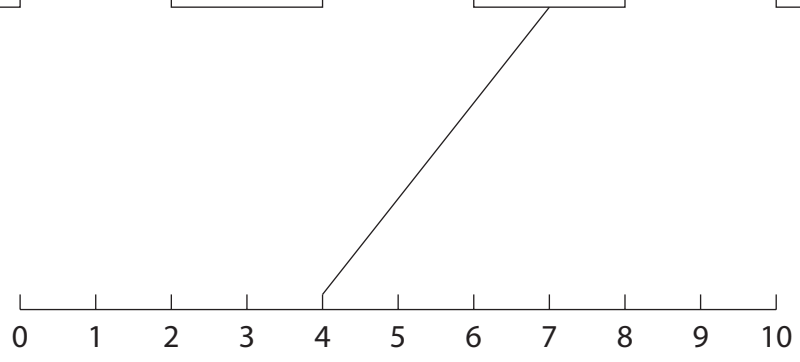
2 Write the missing numbers.

(a) 996 → 100 more → ☐ [1]

(b) ☐ → 1000 more → 10100 [1]

3 Join each division to its answer.
One has been done for you.

60 ÷ 10 | 30 ÷ 3 | 8 ÷ 2 | 28 ÷ 4



[2]

For Examiner's Use

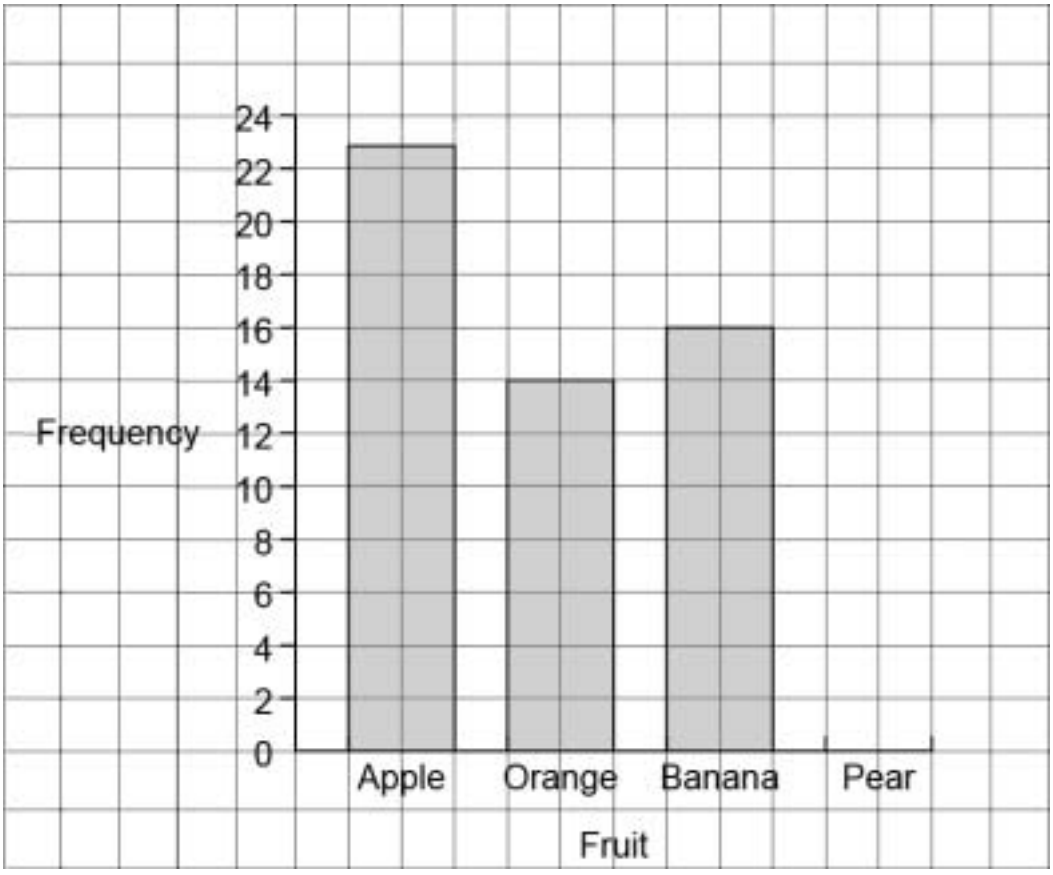
4 Mario sells fruit in a shop.

(a) He keeps a tally of his sales one day. Complete the Frequency column.

Fruit	Tally	Frequency
Apple	𝍸 𝍸 𝍸 𝍸 |||	23
Orange	𝍸 𝍸 ||||	
Banana	𝍸 𝍸 𝍸 |	
Pear	𝍸 ||	7

[1]

(b) Draw a bar to show the number of pears sold.



[1]

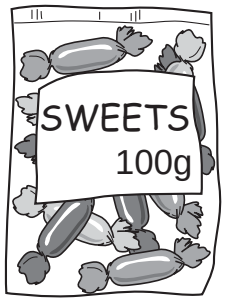
For Examiner's Use

5 Write the missing number in the box.

$$5 \times 4 = 10 \times \square$$

[1]

6 Keisha has 100 grams of sweets.



She gives $\frac{1}{4}$ of the sweets to Mario.

How many grams of sweets does Mario get?

..... grams [1]

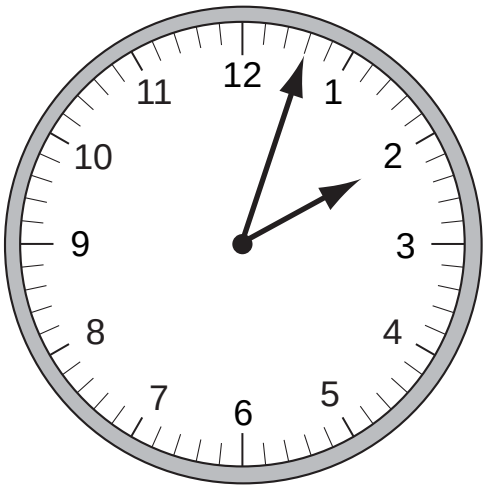
7 Calculate.

$$2006 - 298$$

..... [1]

For Examiner's Use

8 **(a)** Look at this clock.



What time does this clock show?

..... [1]

(b) Look at this clock.

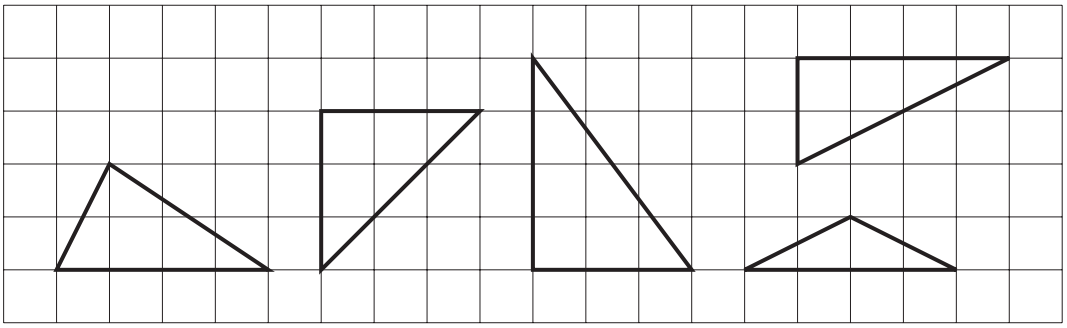
Circle the time which is the same as this digital time.

9:21 am 11:21 am 9:09 pm 9:21 pm 11:09 pm [1]

For Examiner's Use

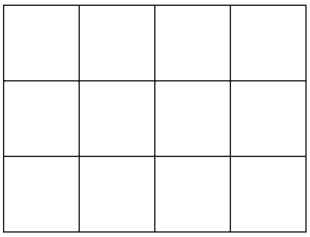
9 Here are some triangles.

Tick (✓) **all** the isosceles triangles.



[1]

10 Abdul, Mario and Keisha share a cake.
The cake is cut into 12 pieces.



Abdul eats $\frac{1}{4}$ of the cake.

Mario eats $\frac{1}{3}$ of the cake.

Keisha eats $\frac{1}{6}$ of the cake.

(a) Shade the cake to show how much Abdul eats. [1]

(b) Who eats the smallest amount of cake?

..... [1]

(c) How many twelfths of the cake does Mario eat?

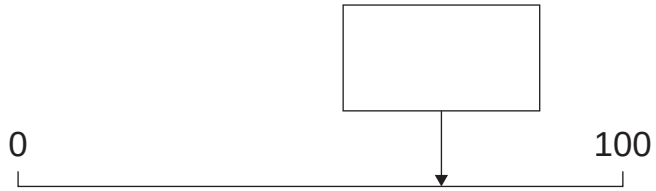
$\frac{\square}{12}$

[1]

For Examiner's Use

11 Here is a number line.

Estimate the number marked by the arrow.



[1]

12 **(a)** Add 3.71 and 6.58

..... [1]

(b) Double 286

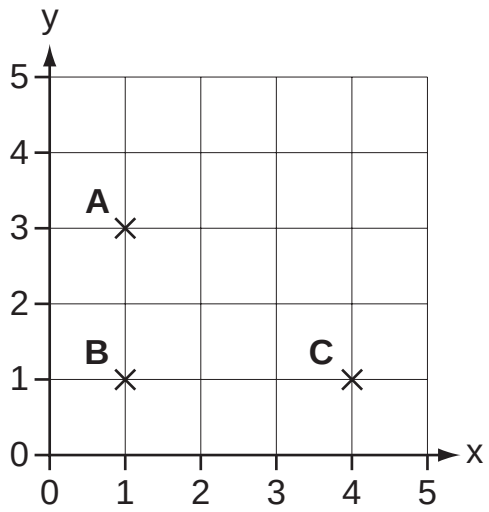
..... [1]

(c) Divide 342 by 6

..... [1]

For Examiner's Use

13 Three points **A**, **B** and **C** are shown on the grid.



(a) What are the coordinates of point **A**?

(....., ...) [1]

(b) Mark with a cross point **D** so that **A**, **B**, **C** and **D** can be joined together to make a rectangle**.** [1]

14 Complete the multiplication grid.

×	4	☐	7
2	8	10	14
9	36	45	☐
☐	12	☐	21

[2]

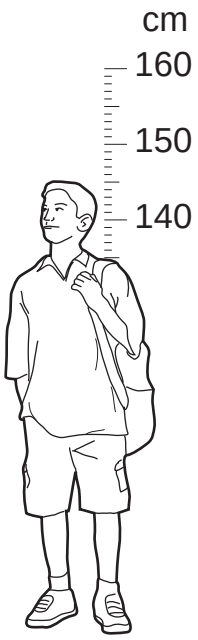
For Examiner's Use

15 (a) How long is this line?
Give your answer in millimetres.

_____

..... mm [1]

(b) Mario is standing by a height scale.



How tall is Mario?

..... cm [1]

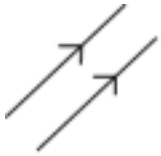
(c) Keisha walks 1.5 km to school.

How many **metres** does she walk?

..... m [1]

For Examiner's Use

16 Here are three pairs of lines.



Pair 1

Pair 2

Pair 3

Complete these sentences.

Pair ..... are perpendicular lines.

Pair ..... are parallel lines. [1]

17 Calculate.

(a) 3.5 × 7

..... [1]

(b) 14.4 ÷ 6

..... [1]

For Examiner's Use

18 Abdul has some number cards.

1	2	3	4	5

Use **two** of his cards to make a fraction equivalent to 0.8

$$\frac{\square}{\square}$$

[1]

19 Here are five number cards.

9	19	29	39	49

Choose a card to complete each of these sentences.

(a) ☐ is a multiple of 3. [1]

(b) ☐ is a square number. [1]

(c) ☐ is a prime number. [1]

(d) ☐ is a factor of 38. [1]

For Examiner's Use

20 Here are some numbers.

14 0 -10 -4 4

Write them in order, starting with the smallest.

smallest **largest**

[1]

21 Keisha says:

I am thinking of a 3-dimensional shape.

It has 5 faces, 8 edges and 5 vertices.

4 faces are triangles and 1 face is a square.

What shape is Keisha thinking of?

..... [1]

22 **(a)** Write **two different** decimals that add to make 1

	+		= 1

[1]

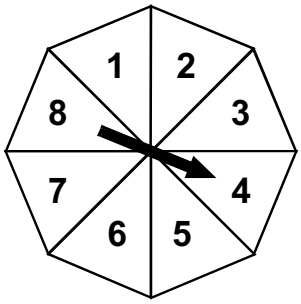
(b) Tick (✓) the two numbers that **total** 10

0.11 1.01 0.01 9.09 9.9 9.99

[1]

23 Abdul uses a fair **8-sided** spinner.

For Examiner's Use



Draw lines to show how likely these outcomes are. One has been done for you.

A number less than 10	impossible
	unlikely
The number 11	even chance
	likely
An odd number	certain

[1]

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

MATHEMATICS **0845/02**

Paper 2 **For Examination from 2012**

SPECIMEN PAPER

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on the work you hand in.
Write in dark blue or black pen.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.

For Examiner's Use	
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14	
Total	

This document consists of **14** printed pages.

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For Examiner's Use

1 Look at these cards.

A	Thirty thousand four hundred
B	Thirty-four thousand
C	Three thousand four hundred
D	Thirty-three thousand four hundred
E	Thirty-three thousand and forty

Write the correct letter of the card by the correct number.

(a)

3400

[1]

(b)

30400

[1]

2 Here are some numbers.

107 100 55 120 115

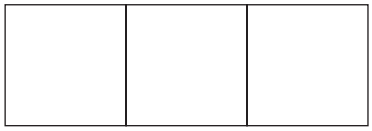
Each number is divided by 5.
Only one number has a remainder. What is the remainder?

remainder ..... [1]

For Examiner's Use

3 Look at these digit cards.

Use each card **once** to make the **smallest even** number.

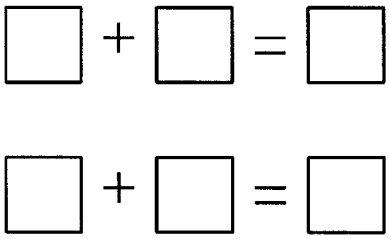


[1]

4 Here are some numbers.

1 2 3 3 4 5

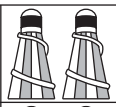
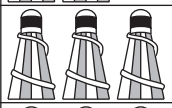
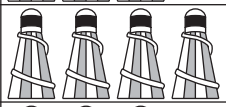
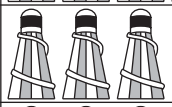
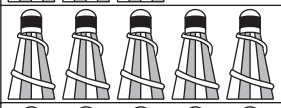
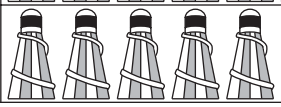
Use each number **once** to complete the two sums.



[1]

For Examiner's Use

5 This pictogram shows how many people go to a park each day during one week.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

Key
 = 200 people

(a) How many **more** people go to the park on Saturday than go on Monday?

..... [1]

(b) A ticket for the park costs $10.

How much money did the park take on Monday?

$ ..... [1]

6 Write in the missing numbers.

(a) 22 × ☐ = 176 [1]

(b) ☐ ÷ 10 = 23 [1]

For Examiner's Use

7 Here are some angle cards.

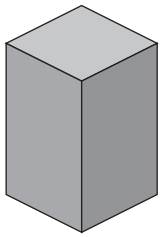
A	B	C	D	E
120º	1 right angle	60º	half a right angle	180º

Order these angles starting with the smallest angle.

smallest **largest**

[1]

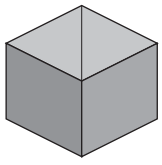
8 **(a)** Here is a drawing of a 3D shape.

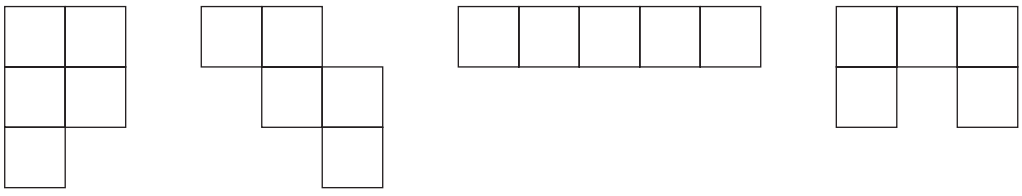


What is the name of this shape?

..... [1]

(b) Tick (✓) the net which will fold to make a box without a lid.





[1]

For Examiner's Use

9 Circle the number that is closest to 350.

375 309 355 346 361

[1]

10 Mario collects information about the students in his class.

He draws a Carroll diagram to show his results.

	Left-handed	Right-handed
Glasses	1	8
No glasses	4	15

(a) How many students are right-handed?

..... [1]

(b) How many students wear glasses?

..... [1]

11 Here are two different number sequences.

(a) Write in the missing numbers.

☐ → +2 → 0 → +2 → 2 → +2 → 4 → +2 → 6 → +2 → ☐

[1]

(b) Complete the number sequence.

☐ → half → 96 → half → 48 → half → ☐

[1]

For Examiner's Use

12 Complete these calculations.

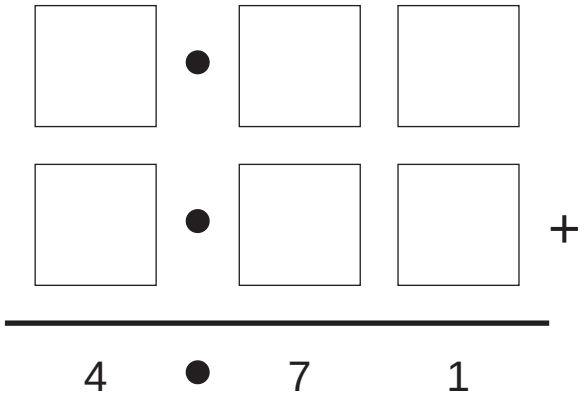
$(4 + 5) \times (9 - 7) =$ ..... [1]

$4 + (5 \times 9) - 7 =$ ..... [1]

13 Here are some number cards.

6	5	4	3	2	1

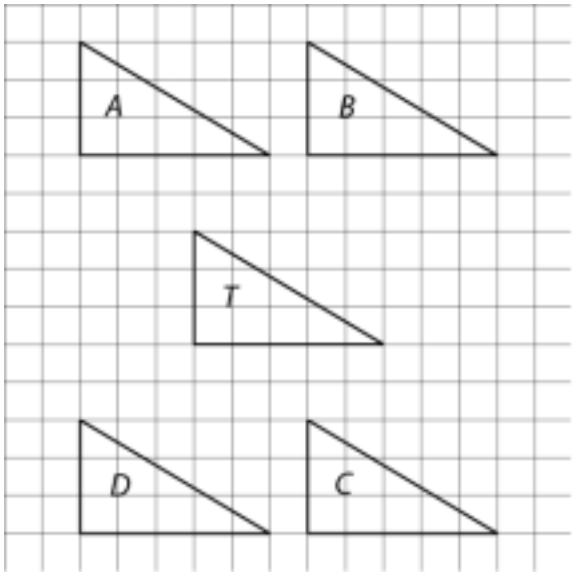
Use all six number cards **once** to make this calculation correct.



[1]

For Examiner's Use

14 Here are five triangles on a grid.

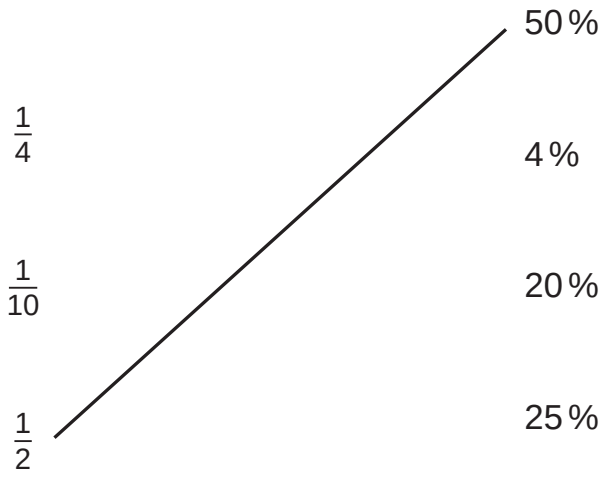


Which triangle shows triangle *T* after a translation of 3 squares right and 5 squares down?

..... [1]

15 Draw a line to join each fraction to a percentage of the **same value.**

The first one has been done for you.



[1]

For Examiner's Use

16 Here are three signs.

= **<** **>**

Choose the correct sign to put in each box.

(a) 144 × 4 ☐ 24 × 24 [1]

(b) 81 × 7 ☐ 36 × 16 [1]

17 A builder needs 8400 bricks to build a wall.

There are 500 bricks in a pack.

How many packs must the builder buy?

..... packs [1]

18 Complete this calculation in two different ways.
Write only one digit in each box.

(a) ☐☐ × ☐ = 324 [1]

(b) ☐☐ × ☐ = 324 [1]

19 Here are some numbers.

5.56 5.6 5.66 5.5 5.65

Order these numbers starting with the **smallest.**

☐ ☐ ☐ ☐ ☐

smallest **largest**

[1]

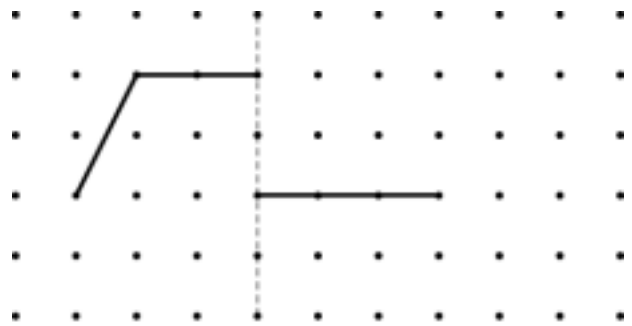
For Examiner's Use

20 Write the **same** number in each box to make this statement correct.

$$\square \times \square = 81$$

[1]

21 Keisher is drawing a symmetrical quadrilateral. Complete her drawing.



[1]

22 Abdul is making a lemon drink.

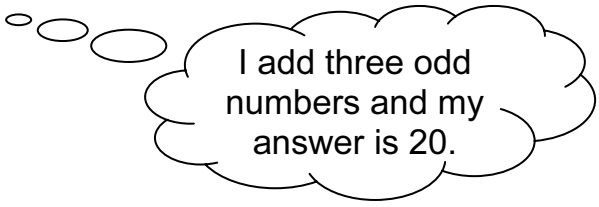
He mixes 9 parts of water with 2 parts of lemon juice.
He uses 100 ml of lemon juice.

How much water does he use?

.....ml [1]

For Examiner's Use

23 Keisha says

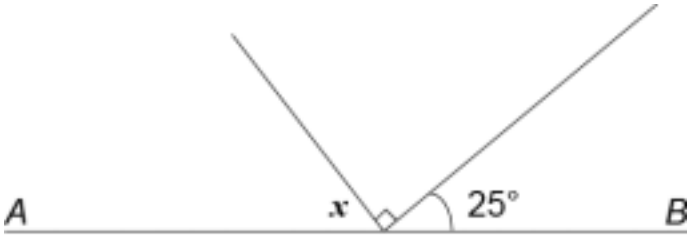


Explain why Keisha cannot be correct.

.....

..... [1]

24 **(a)** AB is a straight line.



NOT TO SCALE

Calculate the size of angle x.

Do **not** use a protractor (angle measurer).

..... ° [1]

(b) What is the sum of the angles inside a triangle?

..... ° [1]

25 Abdul buys a 2½ kg bag of potatoes.

He uses 600 grams of these potatoes.

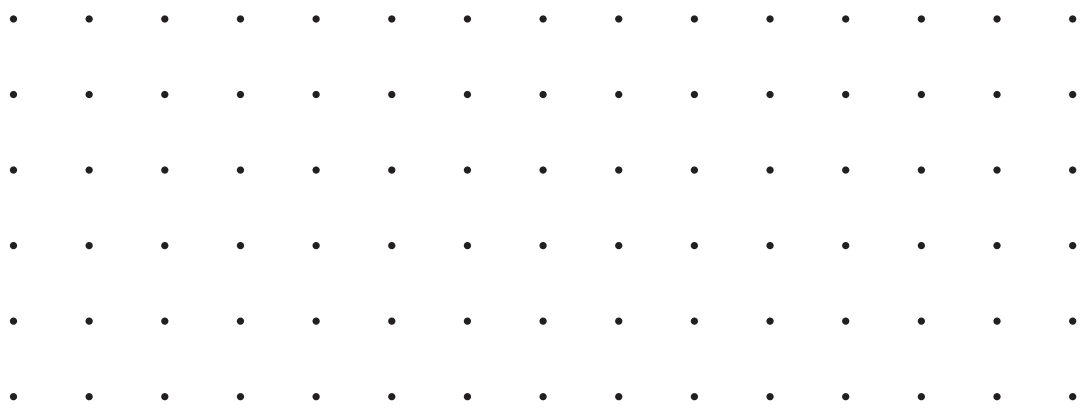
How many **grams** of potatoes are left in the bag?

..... grams [1]

For Examiner's Use

26 The **perimeter** of a square is 12 cm.

(a) Draw the square on the grid.



[1]

(b) What is the **area** of the square with sides 13 cm long?

..... cm^2 [1]

For Examiner's Use

27 A group of students take a Maths test and a Science test.

Their results are shown in the table.

Name	Score in Maths test	Score in Science test
Lena	6	7
Suzanah	8	10
Serene	5	6
Jasmine	10	9
Dawn	9	9
Chris	8	10
Lee	9	10
Eric	7	9
Tan	10	9
Fong	10	10

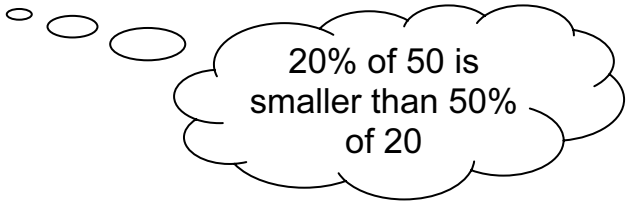
(a) What is the range of marks in the **Science** test?

..... [1]

(b) What is the mode for the **Maths** test?

..... [1]

28 Mario says



Is he right? Yes / No

Explain how you know.

[1]

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Cambridge Primary Checkpoint
Pretest

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

8970423766

MATHEMATICS

Paper 1

Pretest 0845/01/1

April/May 2012

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.
Calculators are **not** allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

For Examiner's Use	
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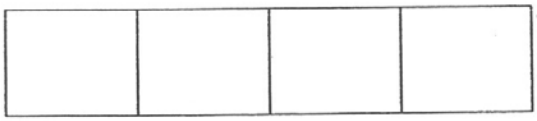
Total	

This document consists of **15** printed pages and **1** blank page.

UNIVERSITY of CAMBRIDGE
International Examinations

1 Here are some number cards.

Use each card **once** to make the largest possible number.



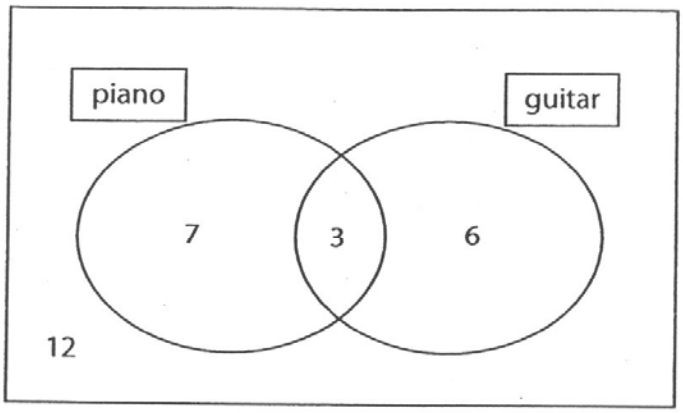
[1]

2 Write a number in each box to complete these equivalent fractions.

$$\frac{1}{2} = \frac{\square}{4} = \frac{4}{\square}$$

[1]

3 The Venn diagram shows the number of children in class 4 that play the piano and the guitar.



(a) How many children in class 4 play the guitar?

..... children [1]

(b) How many children are in class 4?

..... children [1]

4 Put a ring around each length that is greater than $\frac{1}{2}$ metre.

56 cm 37 cm 84 cm 45 cm 23 cm [1]

5 Complete these calculations.

(a) 43 + ☐ = 100 [1] ☐

(b) ☐ + 150 = 1000 [1] ☐

6 Here is part of the calendar for July.

Toni's birthday is on 23rd July.

What day of the week is Toni's birthday?

..... [1] ☐

7 **(a)** Put a ring around **two** numbers that add up to 1000.

150 350 550 650 750 950 [1]

(b) Put a ring around **three** numbers that add up to 200.

30 40 50 60 70 80 [1]

8 Double 46.

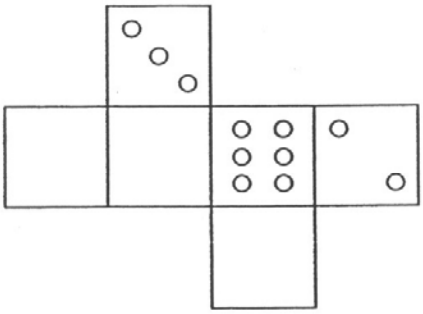
..... [1]

9 Put a ring around all of the numbers that equal 9 when rounded to the nearest whole number.

8.07 8.8 9.45 8.2 9.54 8.54 [1]

10 The opposite sides on a dice add up to 7.

Fill in the missing dots on the net.

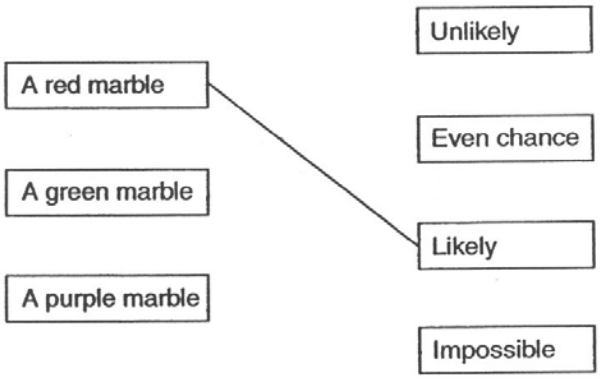


[1]

11 Ahmed has a bag containing 20 red, 6 blue and 2 green marbles.
Ahmed picks one marble without looking.

Match each event with the word that describes the likelihood of it happening.

The first has been done for you.



[1]

12 **(a)** Calculate.

4168 ÷ 10

..... [1]

(b) Calculate.

3.4 x 6

..... [1]

13 Write **all** these numbers in order from highest to lowest.

–8°C 6°C –4°C –7°C 3°C

Highest ____ °C
____ °C
____ °C
____ °C
Lowest ____ °C

[1]

14 Write these measurements in order from largest to smallest.

1.2 kg 3600 g 0.6 kg 900 g

....

largest smallest

[1]

15 Adamu cuts a melon into 8 equal slices.

He gives 5 slices to his friends.

What **fraction** of the melon does he have left?

..... [1]

16 Write **all** the missing numbers in this multiplication grid.

x			
	42	48	54
	49		63
8		64	72

[2]

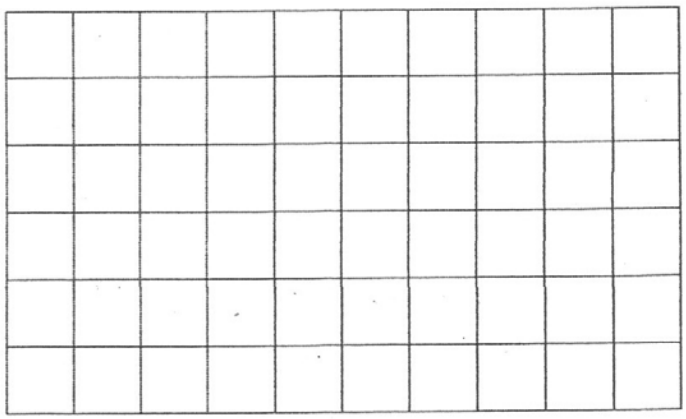
17 Complete the list of factors of 24.

1, 2, 3, ... [1]

18 Find the difference between 7600 and 499.

..... [1]

19 Draw a rectangle with a perimeter of 12 cm.



[1]

20 In a cinema there are 15 rows with 26 seats in each row.

How many seats are there altogether?

..... seats [1]

21 Here are the prices of seven cinema tickets.

Write down the mode of these ticket prices.

$..... [1]

22 Jo's journey to school takes 17 minutes.

He arrives at school at 08:03 am.

What time did he leave home?

..... [1]

23 **(a)** What is the value of the digit 2 in the number 4.02?

Put a ring round the correct answer.

2 hundreds 2 tens 2 units 2 tenths 2 hundredths [1]

(b) What does the digit 5 represent in the number 125 319?

..... [1]

24 **(a)** Here are the heights of some children.

134 cm 142 cm 156 cm 145 cm

Calculate the range of their heights.

..... cm [1]

(b) The range of the heights of three adults is 17cm.

Write down possible heights of the shortest and tallest adults.

..... cm 165 cm ..... cm

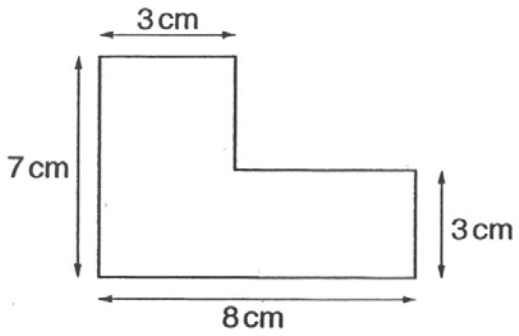
[1]

25 Calculate.

17.8 x 4

..... [1]

26 Here is a shape.



Not to scale

(a) What is the area of the shape?

..... cm^2 [1]

(b) What is the perimeter of the shape?

..... cm [1]

27 Draw a line to match each multiplication to its correct answer.

One has been done for you.

32 × 1000	3200
32 × 100	32 000
3.2 × 10	320
3.2 × 100	32

[1]

28 Write a number greater than 100 which is a multiple of both 3 and 4.

..... [1]

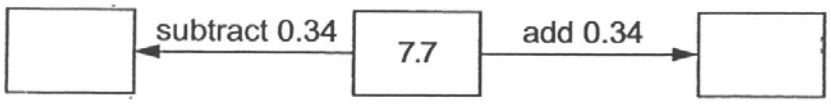
29 Daniel buys some coloured pencils.

He buys 1 red pencil for every 2 blue pencils.
He buys 24 **red** pencils.

How many blue pencils does he buy?

..... pencils [1]

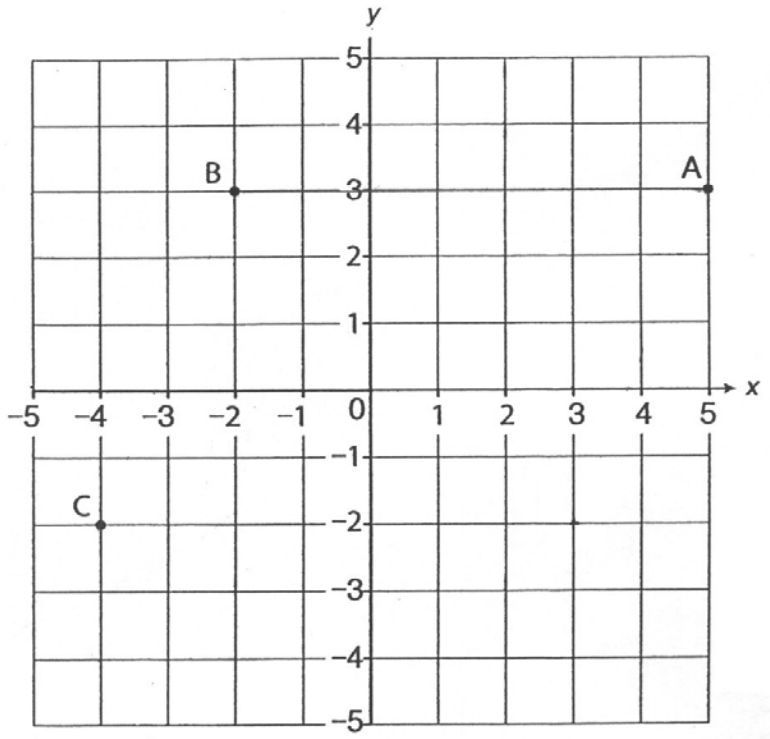
30 Complete the boxes.



[1]

31 ABC are three points of a parallelogram.

Write the coordinates of point D.



D (..... , ...) [1]

32 At midday the temperature in Moscow was 7°C.

At midnight it was –3°C.

By how many degrees did the temperature fall?

..... °C [1]

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Cambridge Primary Checkpoint
Pretest

CANDIDATE NAME

CENTRE NUMBER | | | | | |

CANDIDATE NUMBER | | | | |

* 2 5 8 2 8 1 4 7 4 1 *

MATHEMATICS

Paper 2

Pretest 0845/02/1

April/May 2012

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

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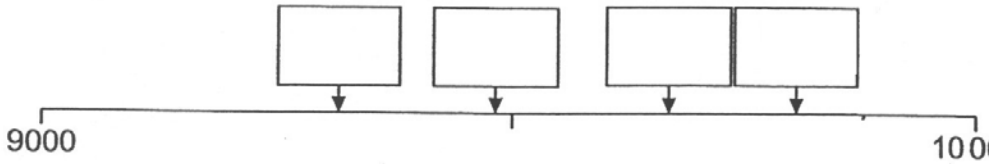
UNIVERSITY of CAMBRIDGE International Examinations

1 Write each number in its correct box to show its position on the number line.

9482 9842



[1]

2 Put a tick (✓) next to the calculation that is the same as $\frac{1}{4}$ of 12.

12 x 4 ☐

12 – 4 ☐

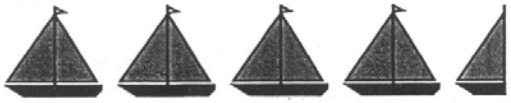
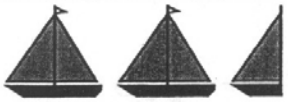
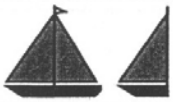
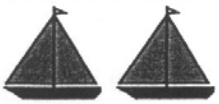
$12 + \frac{1}{4}$ ☐

12 ÷ 4 ☐

$12 - \frac{1}{4}$ ☐

[1]

3 George counts the number of boats sailing into a harbour on 5 days.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

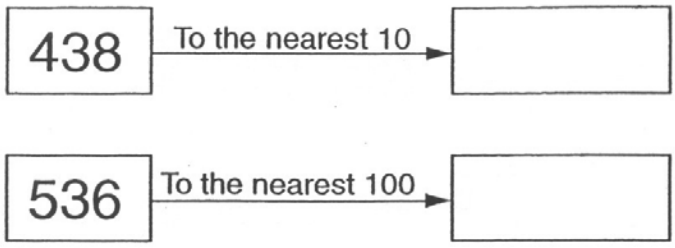
Key  represents 10 boats

 represents 5 boats

How many boats does George count sailing into the harbour altogether?

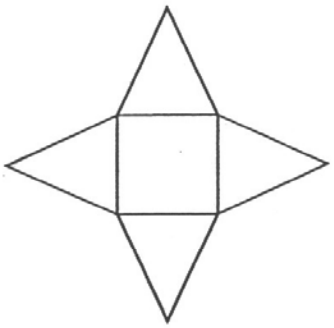
..... boats [1]

4 Complete the boxes.



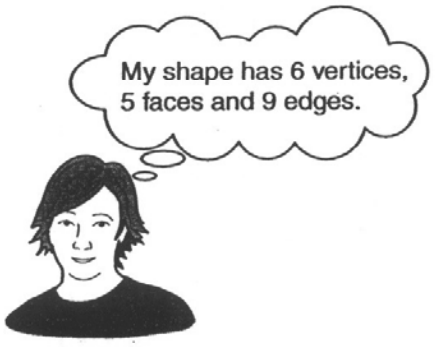
[1]

5 Here is a net of a 3D shape.



(a) What 3D shape does it make? ..... [1]

(b) Alex thinks of a 3D shape.



Write down the name of the 3D shape Alex is thinking of.

..... [1]

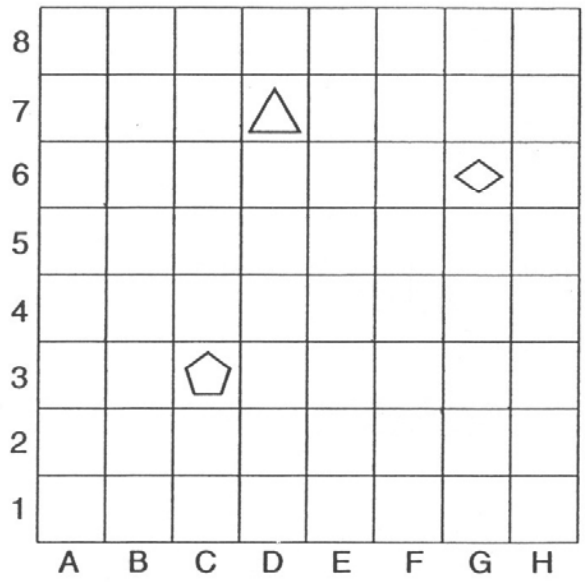
6 Complete these number facts.

$$\frac{\square}{4} + \frac{1}{4} = 1$$

$$\frac{1}{\square} + \frac{1}{2} = 1$$

[1] ☐

7 The diagram shows a grid.



(a) Draw a circle in B4. [1] ☐

(b) Write down the position of the triangle.

..... [1] ☐

8 Here is a clock face.

(a) What time does the clock face show?

..... [1]

(b) Write 11:25 pm as a 24-hour clock time.

[1]

9 Complete the table.

The first row has been done for you.

In words	In figures
Six hundred and forty	640
Seven thousand, nine hundred and six	
	2079

[1]

10 The first 5 numbers in a sequence are

6, 8, 12, 18, 26, ...

The sequence continues in the same way.

What is the next number in the sequence?

..... [1]

11 Put one tick (✓) in each row to complete this table.

The first row has been done for you.

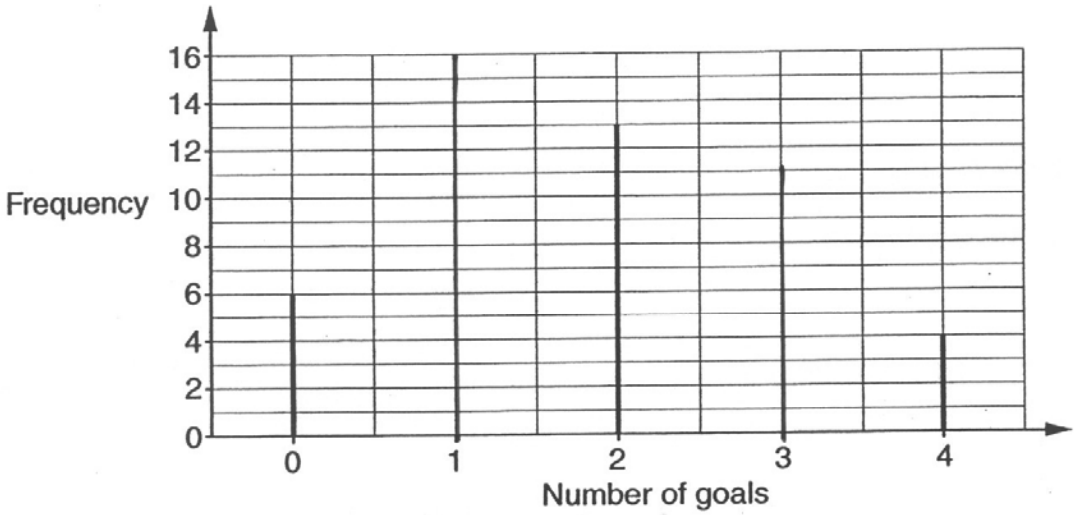
	Less than 50%	**Equal to 50%**	**More than 50%**
0.6			✓
$\frac{1}{2}$			
0.05			
$\frac{9}{10}$			

[1]

12 Zoe records the number of goals scored in 50 football matches.

Number of Goals	Frequency
0	6
1	16
2	13
3	11
4	4

(a) Complete the bar-line chart to show Zoe's results.



[1]

(b) Zoe says that the mode for the number of goals scored is 2.

She is wrong.

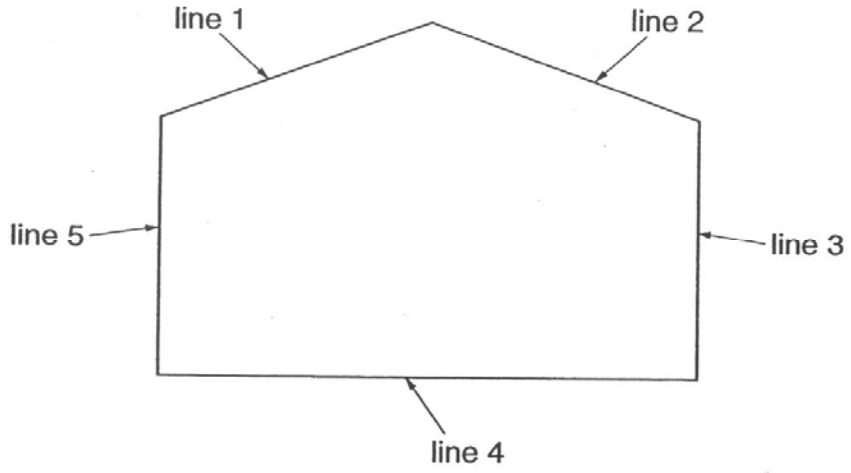
Explain why.

.....

.....

[1]

13 This shape is made from 5 straight lines.



Complete these statements.

The first has been done for you.

Line 1 is equal in length to line 2

Line ..... and line ..... are parallel.

Line 5 is perpendicular to line ..... [1]

14 Work out 20% of 360

..... [1]

15 Is 90 a multiple of 5?

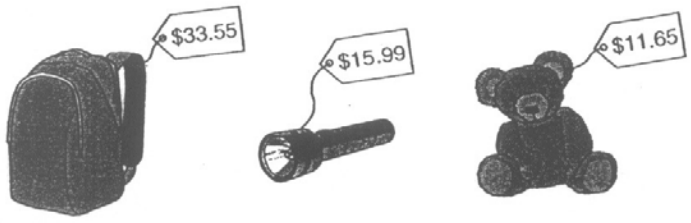
Yes	No

Give a reason for your answer.

.....

..... [1]

16 Susan buys a backpack, a torch and a teddy.



(a) How much does she spend altogether?

$ ..... [1]

(b) How much change does she receive from $100?

$ ..... [1]

17 Here are some angles.

90° 60° 155° 236°

Choose the correct angle to complete each sentence.

..... is a right angle.

..... is an acute angle.

..... is an obtuse angle. [1]

18 A piece of ribbon is 8.4 metres long.

The ribbon is cut into 20 equal pieces.

(a) How long is each piece of ribbon?

..... cm [1]

(b) The pieces of ribbon are put into packs of 4

Each pack is sold for $4.60 each.

Jane buys 12 pieces of ribbon.

How much does she spend?

$ ..... [1]

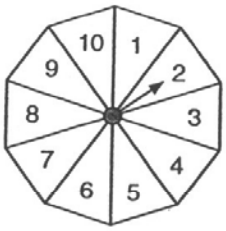
19 Work out.

$(14.8 + 17.2) \times 1.25$ .....

$120 \div (12 - 4.5)$ ..... [1]

20 The diagram shows a fair spinner with 10 equal sized sections.

Each section is labelled with a number from 1 to 10



Annette spins the spinner.

(a) Tick the word that describes how likely each event is to happen.

Annette scores a number smaller than 8

Impossible	☐
Unlikely	☐
Even chance	☐
Likely	☐
Certain	☐

Annette's score is a multiple of 12

Impossible	☐
Unlikely	☐
Even chance	☐
Likely	☐
Certain	☐

[1] ☐

(b) Give an example of an event connected with this spinner that has an even chance of happening.

.....

[1] ☐

21 **(a)** Round 8375 to the nearest thousand.

..... [1]

(b) Round 3.66 to the nearest tenth.

..... [1]

22 Jenny thinks of two prime numbers.

Both numbers are bigger than 10

The sum of her numbers is 28

What are the two numbers that Jenny is thinking of?

..... and ..... [1]

23 Use one of the symbols to complete each number sentence.

$<$ $=$ $>$

$\frac{5}{8}$ ..... $\frac{3}{8}$

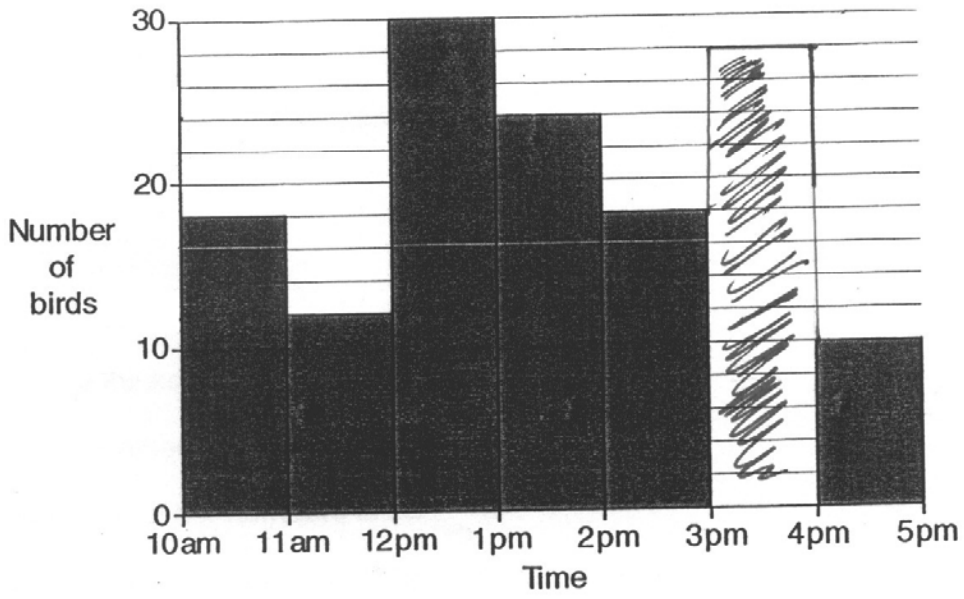
$\frac{6}{8}$ ..... $\frac{3}{4}$

$\frac{3}{8}$ ..... $\frac{1}{2}$

[1]

24 Samir counted the number of birds visiting her garden each hour between 10 am and 5 pm.

The chart shows some of her data.



(a) Samir says

> I counted double the number of birds between 1 pm and 2 pm than I did between 11 am and 12 pm.

Is Samir correct? **Yes / No**

Explain your answer

.....

.....

[1]

(b) Between 3 pm and 4 pm she saw 28 birds.

Complete the chart. [1]

25 (a) Tick (✓) to show whether each of these calculations is true or false.

	True	False
$27 \div 5 = 5$ remainder 2		
$47 \div 7 = 5\frac{6}{7}$		
$37 \div 6 = 6\frac{1}{6}$		

[1]

(b) Complete this calculation.

$\square \div 7 = 4\frac{2}{7}$ [1]

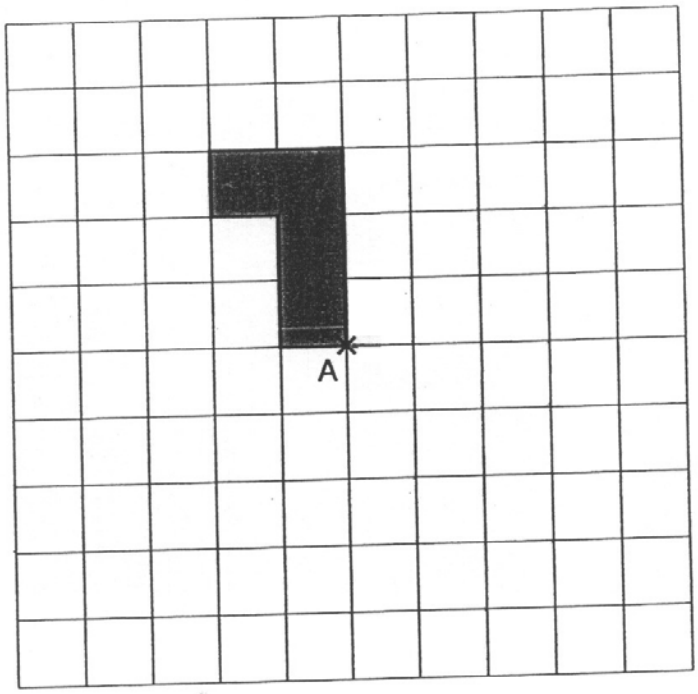
26 The price of a coat is $45

In a sale the price is reduced by 15%.

Work out the price of the coat in the sale.

$ ..... [1]

27 Rotate the shape clockwise through an angle of 90° about vertex A.



[1]

28 The cost of some items in a decorating store is shown.

paintbrush
$2.40

stepladder
$18.70

paint
$13

Freddie has $100

He buys two paintbrushes and a stepladder.

Work out the most cans of paint he can buy with the money he has left.

Show how you worked out your answer.

..... cans [2]

29 Fill in the missing digits to make this addition correct.

2	6		+	5		4	=		1	7

[1]

UNIVERSITY of CAMBRIDGE
International Examinations

Cambridge International School

Check Point Specimen

2014-2017

Cambridge Primary Checkpoint

Cambridge International Examinations
Cambridge Primary Checkpoint

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

MATHEMATICS **0845/01**

Paper 1 **For Examination from 2014**

SPECIMEN PAPER

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

Answer **all** questions.

Calculators are **not** allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **16** printed pages.

CAMBRIDGE International Examinations

1 Calculate

$$423 - 298 =$$

..... [1]

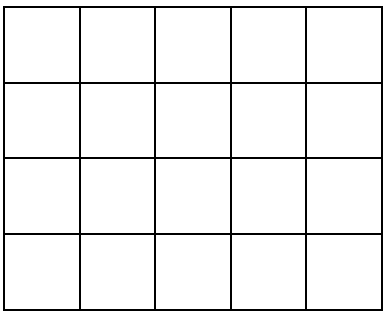
2 Fatima has 72 oranges.

Four oranges are needed to make a glass of freshly squeezed orange juice.

How many glasses of orange juice can she make?

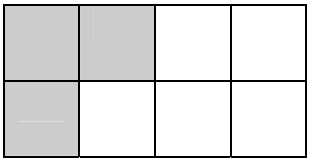
..... glasses [1]

3 **(a)** Shade $\frac{2}{5}$ of the shape.



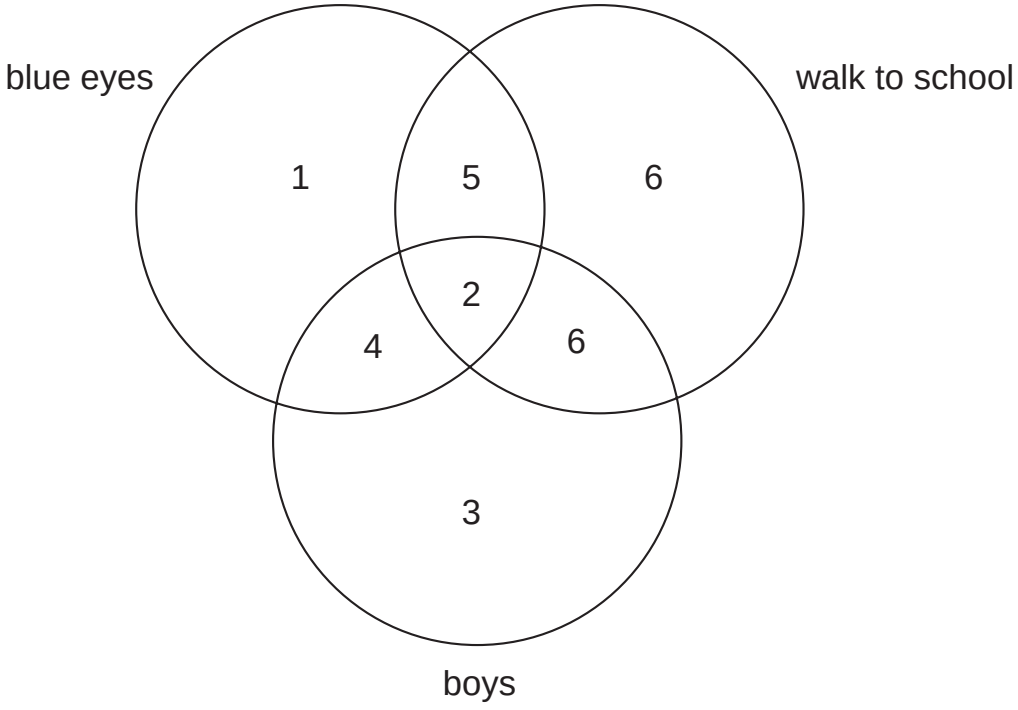
[1]

(b) What fraction of the shape below is shaded?



..... [1]

4 The Venn diagram shows information about the children in a Grade 6 class.



How many children in this class walk to school?

..... children [1]

5 Here is a number fact.

$14 \times 37 = 518$

Use this fact to decide whether these calculations are true or false.

$518 \div 37 = 14$ True ☐ False ☐

$37 \div 518 = 14$ True ☐ False ☐ [1]

6 Write **all** the missing numbers in this multiplication grid.

×			
	42	48	54
	49		63
8		64	72

[2]

7 A box contains 30 chocolates.

How many chocolates are in 6 of these boxes?

..... chocolates [1]

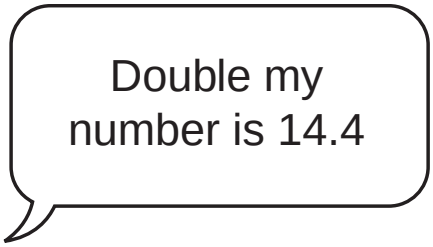
8 Draw a line 68 mm long.

You must use a ruler.

[1]

9 Fatima is thinking of a number.

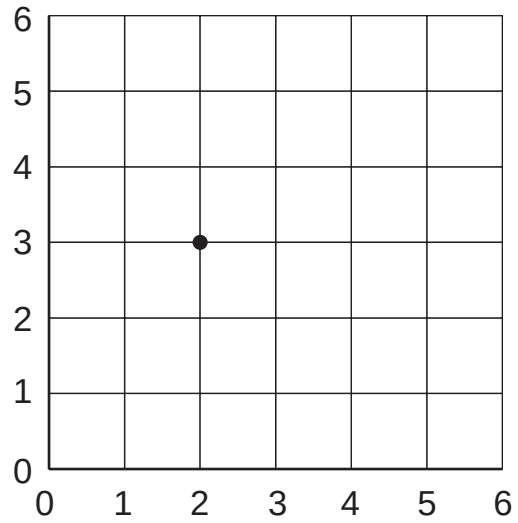
She says



What number is Fatima thinking of?

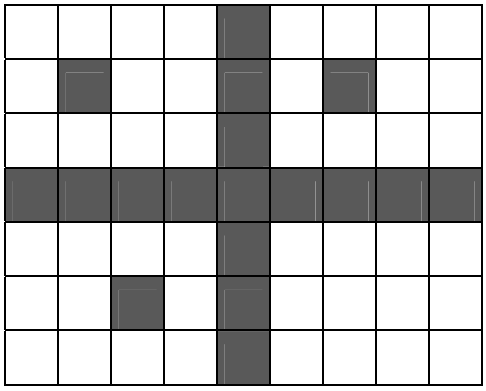
..... [1]

10 The point (2, 3) is plotted below.
Plot **three** more points whose co-ordinates have a sum of 5.



[1]

11 Shade 5 more squares so that this shape has 2 lines of symmetry.



[1]

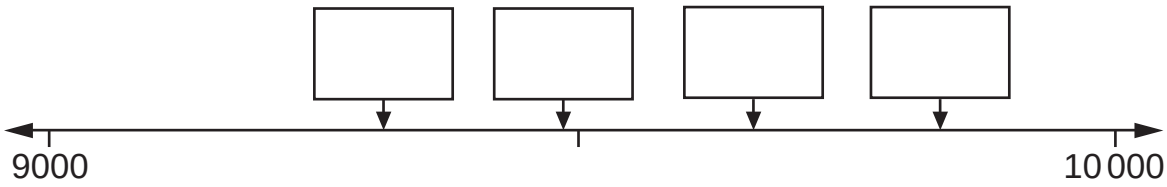
12 Write these fractions in their simplest form.

$\frac{6}{12}$ = ...

$\frac{12}{15}$ = ... [1]

13 Write each number in its correct box to show its position on the number line.
You will not need all of the boxes.

9482 9842

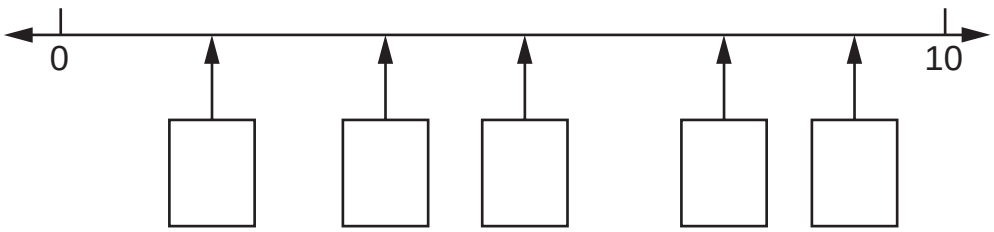


[1]

14 Here are three mixed numbers.

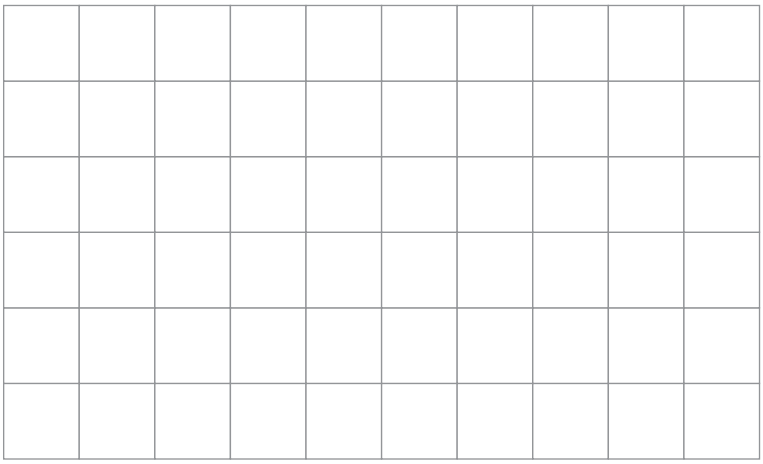
$5\frac{1}{4}$ $7\frac{1}{2}$ $3\frac{3}{4}$

Write each number in its correct box on the number line.
You will not need all of the boxes.



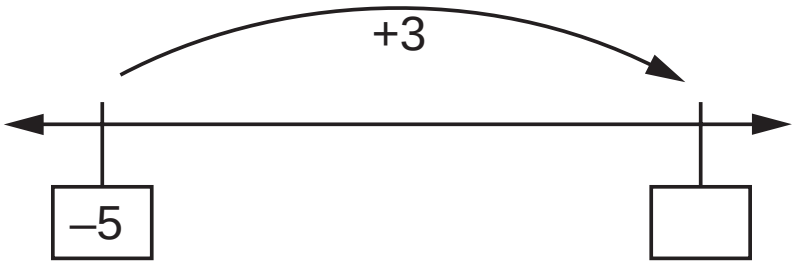
[2]

15 Here is a $1\,cm^2$ grid.
Draw a rectangle with a perimeter of 12 cm.



[1]

16 What is the missing number?



[1]

17 A sequence starts at 300 and 40 is subtracted each time.

300 260 220 180……

The sequence continues in the same way.

What is the first number in the sequence which is less than zero?

..... [1]

18 Draw a ring around **all** the numbers that are factors of 42

1 2 3 4 5 6 7

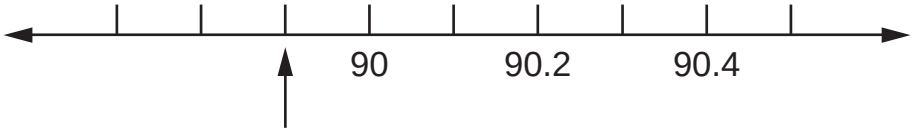
[1]

19 Write in the missing number.

0.85 + ☐ = 1

[1]

20 What number is the arrow pointing to on this number line?



..... [1]

21 Draw a ring around **all** the numbers which are multiples of 25

250 730 675 380 55 [1]

22 **(a)** Calculate.

400 × 70

..... [1]

(b) Here is a number fact.

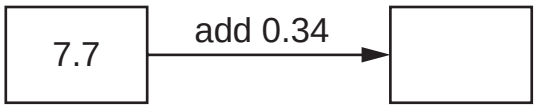
18 × 5 × 6 = 540

Use this to work out

18 × 5 × 12

..... [1]

23 Write the missing number.



[1]

24 Here is a clock face showing a digital time.

Draw a ring around the time that is the same as that shown on the clock.

11:23 am 3:23 pm 11:23 pm

2:23 pm 3:23 am

[1]

25 John records how many points each of his friends get on sports day.
Here are the results.

15, 12, 8, 16, 11, 12, 9,
12, 15, 14, 4, 9, 12, 18,

(a) What is the mode of the points scored?

..... [1]

(b) Complete the frequency table.

	Tally	**Frequency**
0 – 4		
5 – 9		
10 – 14		
15 – 19		

[1]

26 At midday the temperature in Moscow was 7°C.
At midnight it was –3°C.

By how many degrees did the temperature fall?

..... °C [1]

27 **(a)** Here are four fractions.

$\frac{1}{50}$ $\frac{50}{100}$ $\frac{100}{50}$ $\frac{1}{5}$

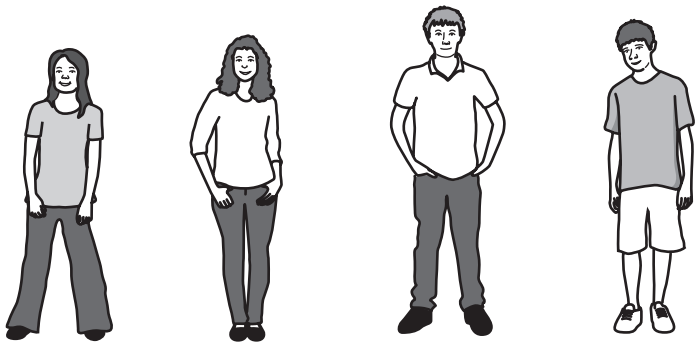
Which fraction is equivalent to 0.5?

..... [1]

(b) What is $\frac{7}{10}$ of 650?

..... [1]

28 **(a)** Here are the heights of some children.



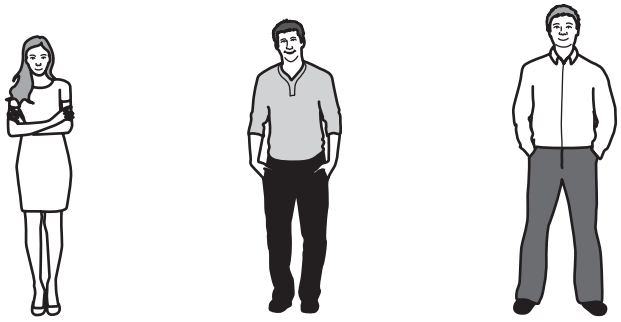
134 cm 142 cm 156 cm 145 cm

Calculate the range of their heights.

..... cm [1]

(b) The range of the heights of three adults is 17cm.

Write down possible heights of the shortest and tallest adults.



..... cm 165 cm ..... cm

[1]

29 **(a)** Write three **different** whole numbers in the boxes to make the multiplication correct.

The numbers must be greater than 1.

$\square \times \square \times \square = 60$

[1]

(b) Write whole numbers in the boxes to make this division correct.

The numbers must be greater than 1.

$\square \div \square = 60$

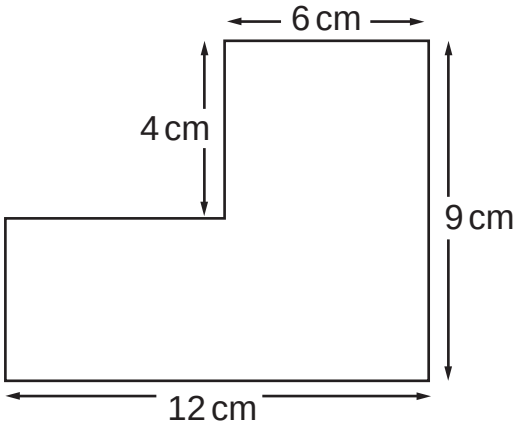
[1]

30 Write in the missing digits to make this calculation correct.

$$\begin{array}{r} \square\,7\,\square \\ \times\quad 6 \\ \hline 1\,0\,3\,2 \end{array}$$

[1]

31 Here is a compound shape made from two rectangles.



NOT DRAWN TO SCALE

(a) Calculate the perimeter of the shape.

..... cm [1]

(b) Calculate the area of the shape.

..... cm^2 [1]

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

MATHEMATICS **0845/02**

Paper 2 **For Examination from 2014**

SPECIMEN PAPER

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator, Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **17** printed pages and **1** blank page.

1 Complete the table.

The first row has been done for you.

In words	In figures
Six hundred and forty	640
Seven thousand, nine hundred and six	
	2079

[1]

2 Use either < or > to make each statement correct.

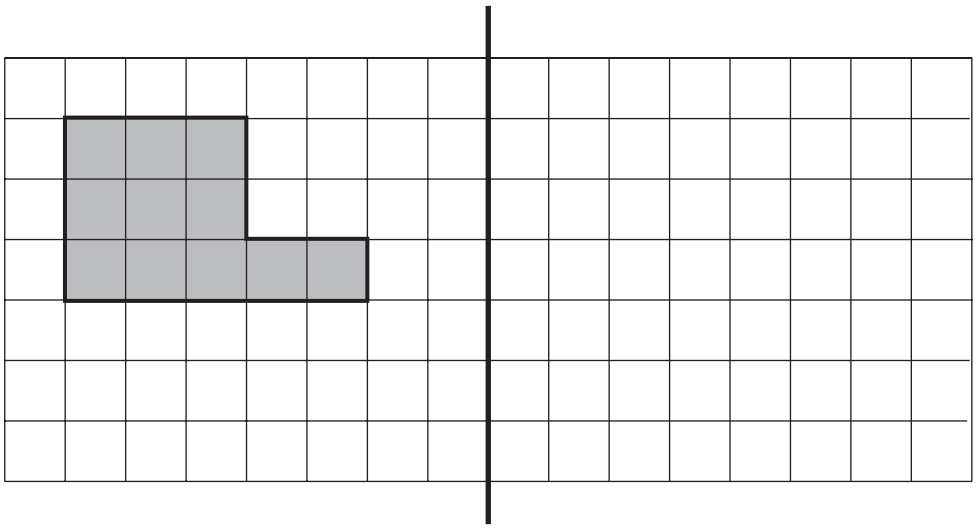
112 ☐ 102

1121 ☐ 1211

2111 ☐ 1112

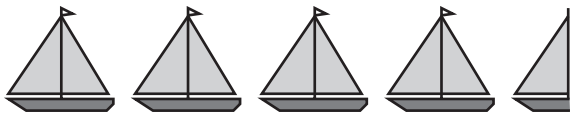
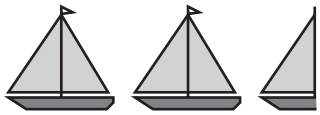
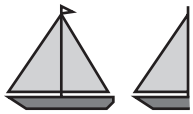
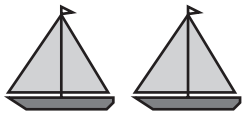
[1]

3 Draw the reflection of the shape in the mirror line.



[1]

4 George counts the number of boats sailing into a harbour on 5 days.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

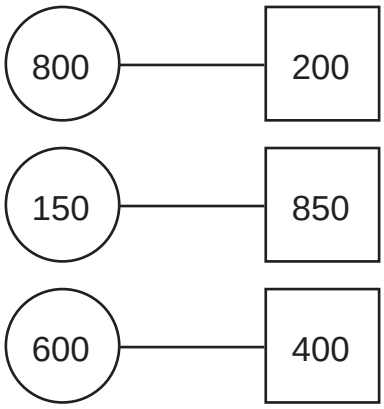
Key  represents 10 boats

 represents 5 boats

How many boats does George count sailing into the harbour altogether?

..... boats [1]

5 **(a)** Each diagram shows a pair of numbers, one in a circle and one in a square.

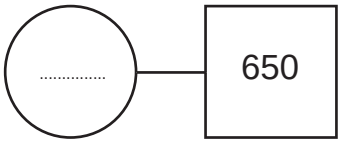


Describe the connection between the pairs of numbers.

.....

..... [1]

(b) The numbers in this diagram are connected in the same way.
Fill in the missing number.



[1]

6 Draw a ring around the number which has the digit 5 in the thousands column.

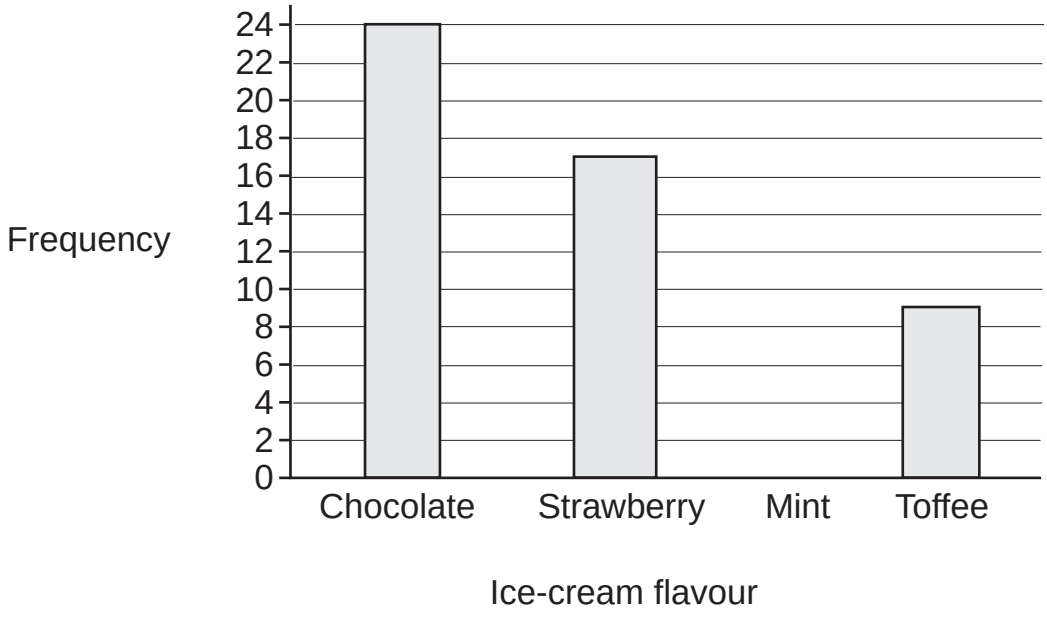
65 302 51 302 69 502 48 352 [1]

7 Marcel sells ice-creams.
One day he keeps a tally of his sales.

Flavour	Tally	Frequency
Chocolate	𝍸 𝍸 𝍸 𝍸 ||||	24
Strawberry	𝍸 𝍸 𝍸 ||	
Mint	𝍸 𝍸 |||	13
Toffee	𝍸 ||||	

(a) Complete the frequency column. [1]

(b) He puts all of this information into a bar chart. Draw the bar for mint.



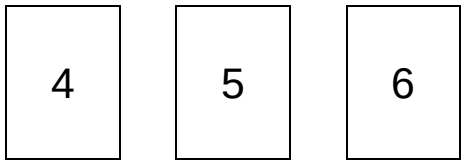
[1]

8 Write the missing number.

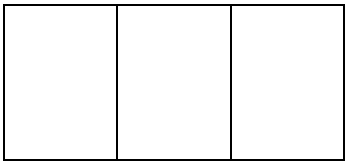
$$\frac{1}{3} + \boxed{} = 1$$

[1]

9 Tina has these three cards.



Use each card **once** to make the largest possible number that will divide by 5 exactly.



[1]

10 Put a tick (✓) next to the calculation that is the same as $\frac{1}{4}$ of 12

12×4 ☐

$12 - 4$ ☐

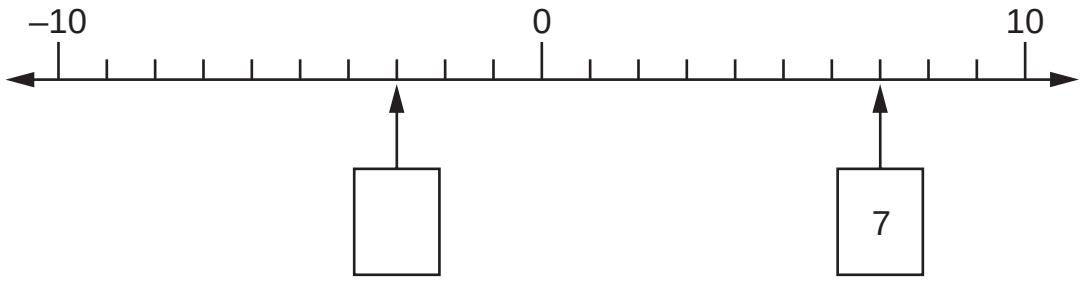
$12 + \frac{1}{4}$ ☐

$12 \div 4$ ☐

$12 - \frac{1}{4}$ ☐

[1]

11 The difference between the two numbers in boxes shown on this line is 10
Write the missing number in the box.



[1]

12 **(a)** Round 8375 to the nearest thousand.

..... [1]

(b) Round 3.66 to the nearest tenth.

..... [1]

13 Here are four digit cards.

0	1	3	5

Use these cards to complete this calculation. Each card must only be used once.

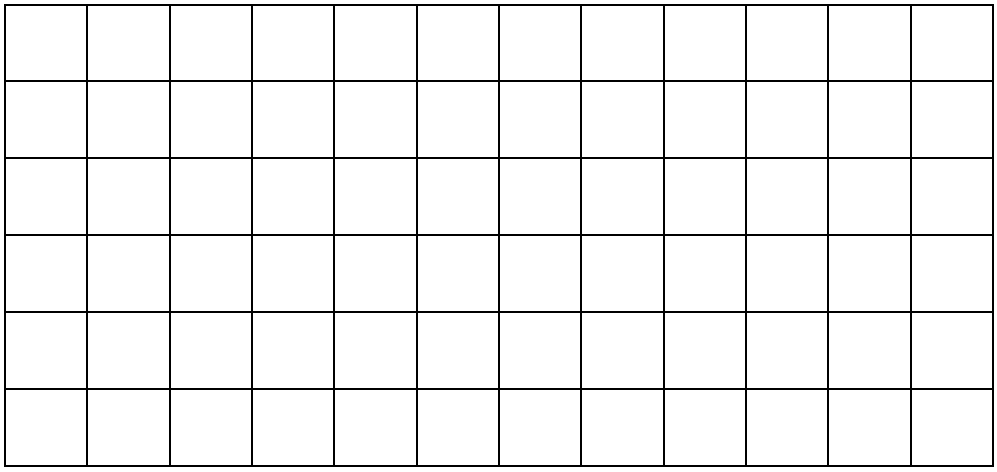
		×			= 450

[1]

14 **(a)** Clara is investigating the following statement:

> Some quadrilaterals have exactly two lines of symmetry.

On the grid below, draw an example of a shape that shows this statement to be **true**.



[1]

(b) Adam is investigating this statement:

> Some triangles contain exactly two right angles.

Explain why this statement is **false**.

.....

..... [1]

15 Complete the table of equivalent fractions, decimals and percentages.

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
	0.4	
$\frac{3}{4}$		

[2]

16 Here is a number grid.

74	75	76
84	85	86
94	95	96

Circle the number that can be divided by 7 with a remainder of 1.

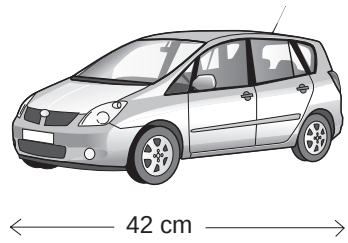
[1]

17 What is the missing number?

$\square \div 5 = 24$

[1]

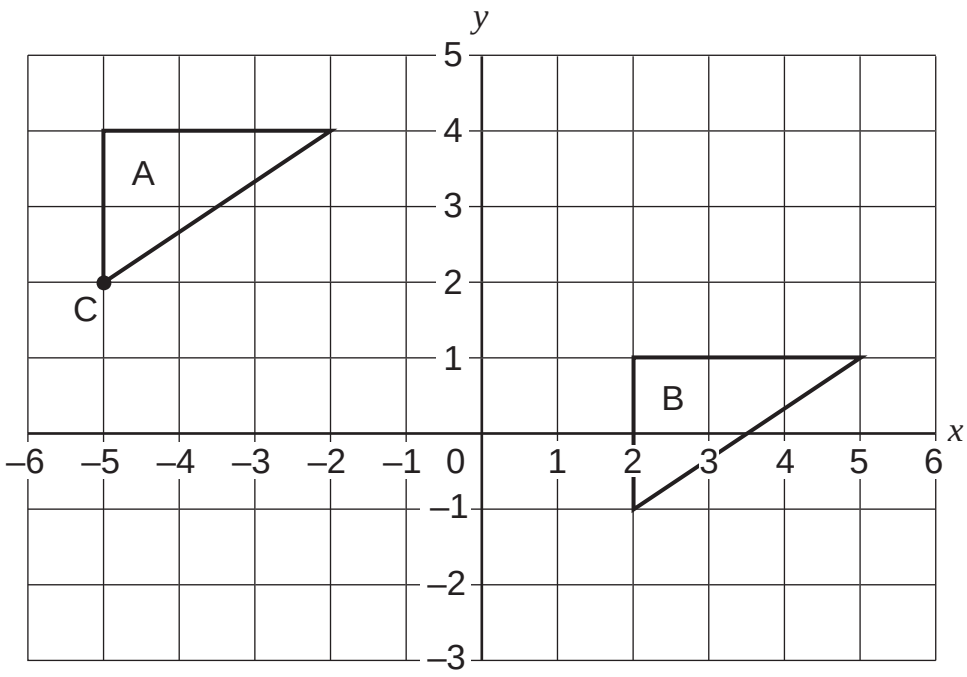
18 A model of a car is one tenth of the size of the real car.
The model measures 42 cm long.



What is the length of the real car?
Give your answer in centimetres.

..... cm [1]

19 Here are 2 triangles on a grid.



(a) What are the co-ordinates of point C?

(..... , ...) [1]

(b) Describe the translation that moves triangle A to triangle B.

..... [1]

20 Use one of the symbols to complete each number sentences.

< = >

$\frac{5}{8}$ ☐ $\frac{3}{8}$

$\frac{6}{8}$ ☐ $\frac{3}{4}$

$\frac{3}{8}$ ☐ $\frac{1}{2}$ [1]

21 The distance between two towns is 50 miles.

Tick (✓) the best approximation of 50 miles in kilometres.

8 kilometres ☐

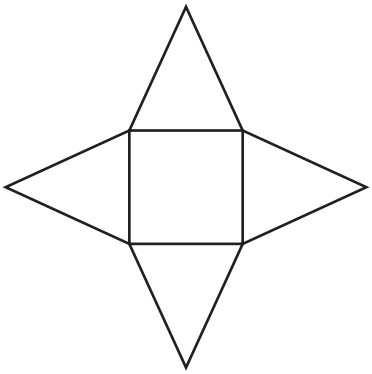
30 kilometres ☐

80 kilometres ☐

200 kilometres ☐

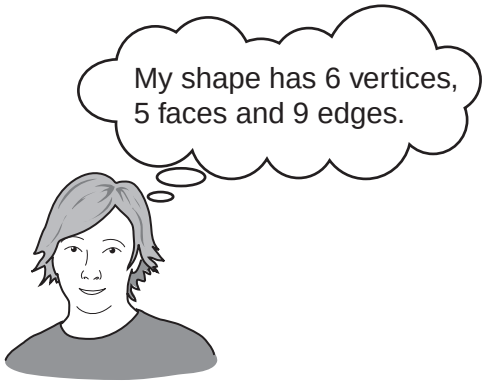
500 kilometres ☐ [1]

22 Here is a net of a 3D shape.



(a) What 3D shape does it make? ..... [1]

(b) Alex thinks of a 3D shape.



Write down the name of the 3D shape Alex is thinking of.

..... [1]

23 Here are four measurements.

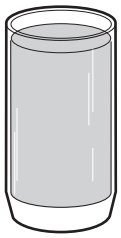
20 cm	1 m	30 mm	2.5 cm

Order the measurements from smallest to largest.

smallest largest

[1]

24 A glass holds 225 millilitres of water.



Peter drinks 1.8 litres of water during a day.

How many glasses of water does he drink during the day?

..... [1]

25 **(a)** Layla is writing the prime numbers in order.

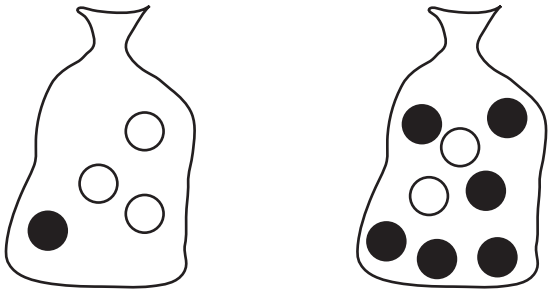
Write in the prime numbers she has missed.

2, 3, 5, 7, ….., 13, ….., 19, 23 [1]

(b) Write the next two numbers in the sequence.

1, 4, 9, 16, 25, ….., ….., [1]

26 Here are two bags.



bag A bag B

Bag A has 1 black bead and 3 white beads.
Bag B has 2 white beads and 6 black beads.

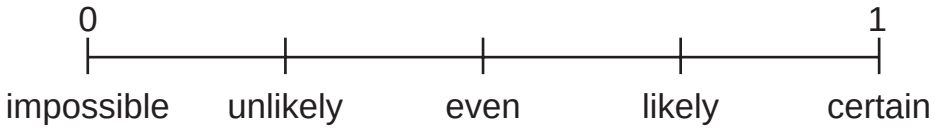
Isaac takes a bead without looking from each bag in turn.

(a) What is the probability of Isaac taking a black bead from bag A?
Draw a ring around one answer.

certain impossible even likely unlikely

[1]

(b) What is the probability of Isaac taking a black bead from bag B?
Mark your answer with an arrow (↓) on the probability line.



[1]

27 Here is part of a train timetable.

Both trains take the same time to travel between stations.

	Train A	**Train B**
Longfield	09 39	12 31
Stoneton	09 56	12 48
Middleton	10 20	
Churchville	10 28	13 20
Postley	10 33	13 25

(a) Fill in the missing time for Train B. [1]

(b) What is the journey time between Longfield and Churchville?

..... minutes [1]

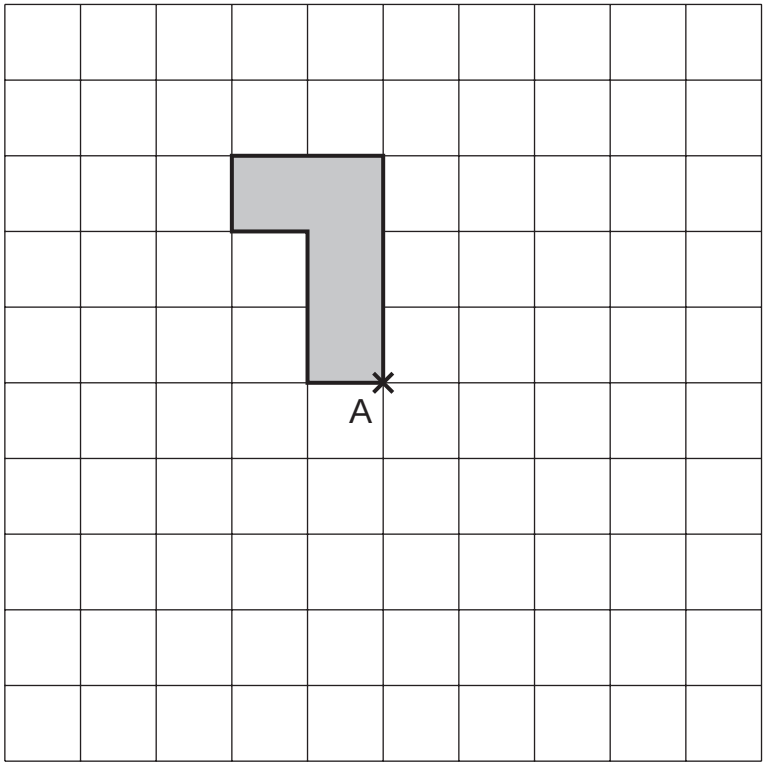
28 The price of a coat is $45

In a sale the price is reduced by 15%.

Work out the price of the coat in the sale.

$ ..... [1]

29 Rotate the shape clockwise through an angle of 90° about vertex A.



[1]

30 Fill in the missing digits to make this addition correct.

2	6		+	5		4	=		1	7

[1]

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

MATHEMATICS **0845/01**

Paper 1 **For Examination from 2014**

SPECIMEN PAPER

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler
Protractor

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

Answer **all** questions.

Calculators are **not** allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **16** printed pages.

CAMBRIDGE International Examinations

1 Calculate

$$423 - 298 =$$

..... [1]

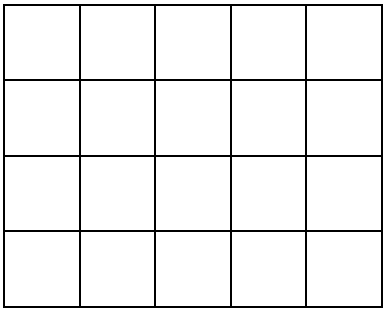
2 Fatima has 72 oranges.

Four oranges are needed to make a glass of freshly squeezed orange juice.

How many glasses of orange juice can she make?

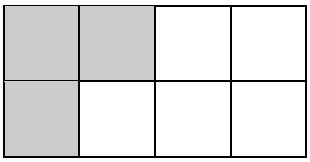
..... glasses [1]

3 **(a)** Shade $\frac{2}{5}$ of the shape.



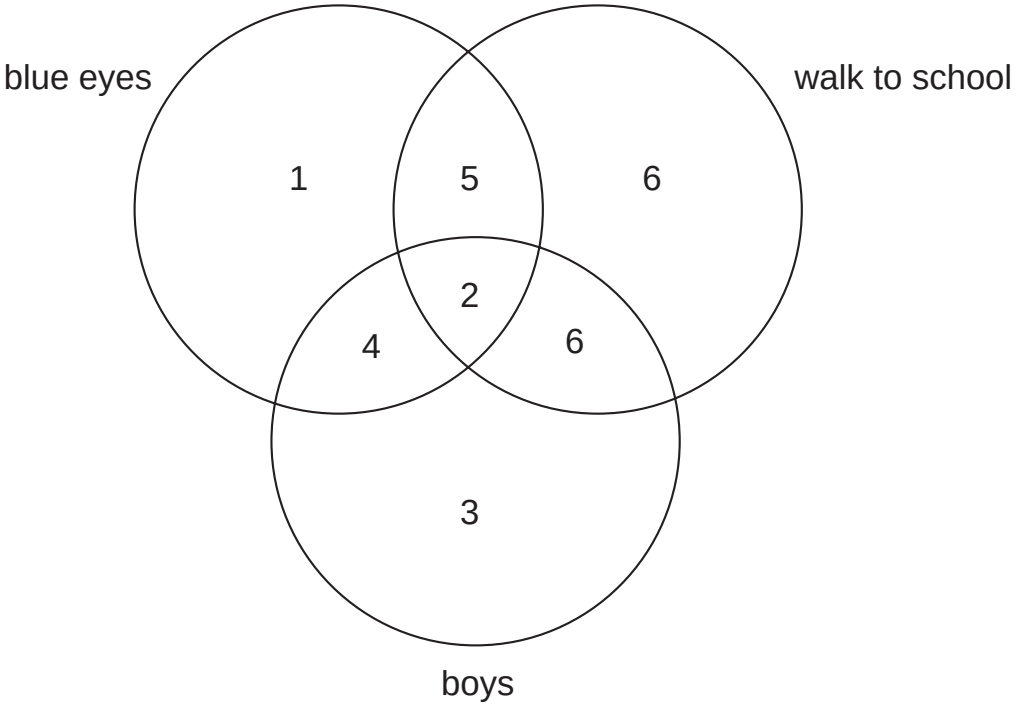
[1]

(b) What fraction of the shape below is shaded?



..... [1]

4 The Venn diagram shows information about the children in a Grade 6 class.



How many children in this class walk to school?

..... children [1]

5 Here is a number fact.

$14 \times 37 = 518$

Use this fact to decide whether these calculations are true or false.

$518 \div 37 = 14$ True ☐ False ☐

$37 \div 518 = 14$ True ☐ False ☐ [1]

6 Write **all** the missing numbers in this multiplication grid.

×			
	42	48	54
	49		63
8		64	72

[2]

7 A box contains 30 chocolates.

How many chocolates are in 6 of these boxes?

..... chocolates [1]

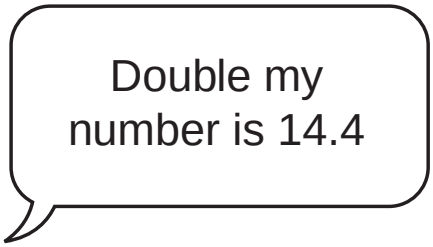
8 Draw a line 68 mm long.

You must use a ruler.

[1]

9 Fatima is thinking of a number.

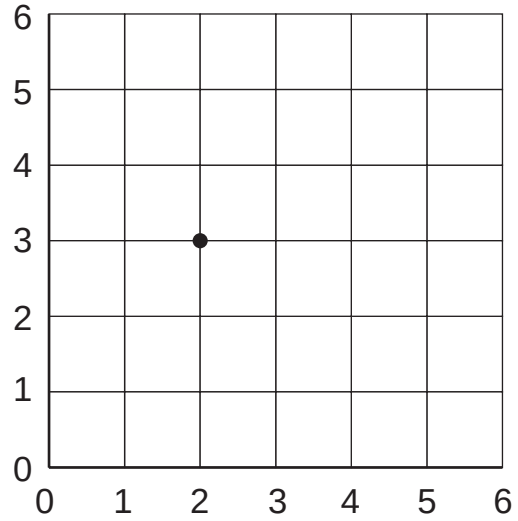
She says



What number is Fatima thinking of?

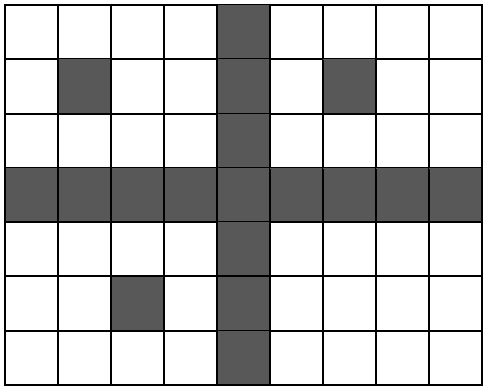
..... [1]

10 The point (2, 3) is plotted below.
Plot **three** more points whose co-ordinates have a sum of 5.



[1]

11 Shade 5 more squares so that this shape has 2 lines of symmetry.



[1]

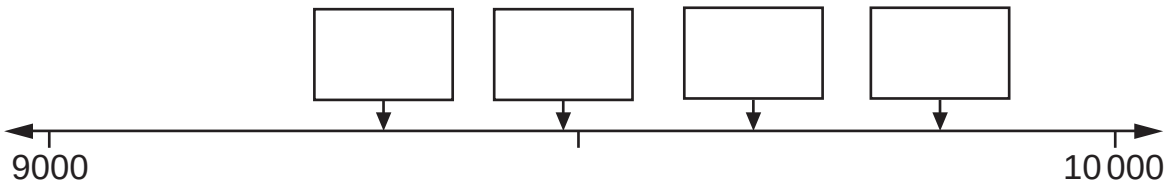
12 Write these fractions in their simplest form.

$\frac{6}{12}$ = ...

$\frac{12}{15}$ = ... [1]

13 Write each number in its correct box to show its position on the number line.
You will not need all of the boxes.

9482 9842

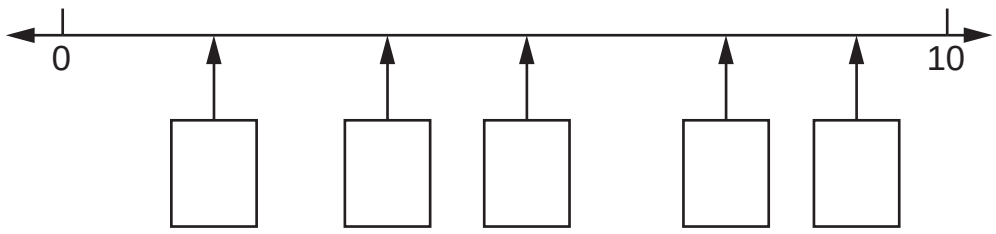


[1]

14 Here are three mixed numbers.

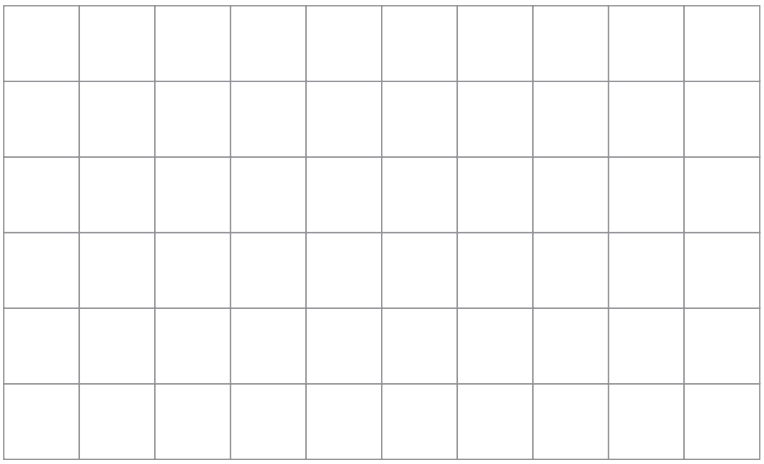
$5\frac{1}{4}$ $7\frac{1}{2}$ $3\frac{3}{4}$

Write each number in its correct box on the number line.
You will not need all of the boxes.



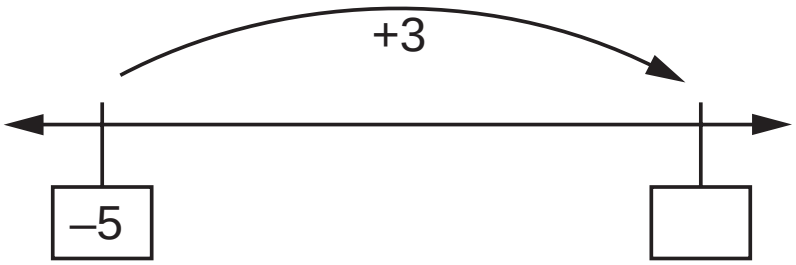
[2]

15 Here is a $1\,cm^2$ grid.
Draw a rectangle with a perimeter of 12 cm.



[1]

16 What is the missing number?



[1]

17 A sequence starts at 300 and 40 is subtracted each time.

300 260 220 180……

The sequence continues in the same way.

What is the first number in the sequence which is less than zero?

..... [1]

18 Draw a ring around **all** the numbers that are factors of 42

1 2 3 4 5 6 7

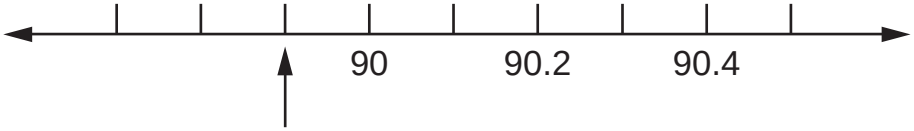
[1]

19 Write in the missing number.

0.85 + ☐ = 1

[1]

20 What number is the arrow pointing to on this number line?



..... [1]

21 Draw a ring around **all** the numbers which are multiples of 25

250 730 675 380 55 [1]

22 **(a)** Calculate.

400 × 70

..... [1]

(b) Here is a number fact.

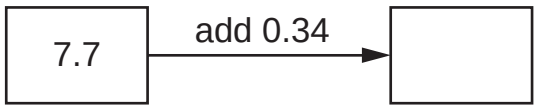
18 × 5 × 6 = 540

Use this to work out

18 × 5 × 12

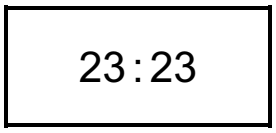
..... [1]

23 Write the missing number.



[1]

24 Here is a clock face showing a digital time.



Draw a ring around the time that is the same as that shown on the clock.

11:23 am 3:23 pm 11:23 pm

2:23 pm 3:23 am

[1]

25 John records how many points each of his friends get on sports day.
Here are the results.

15, 12, 8, 16, 11, 12, 9,
12, 15, 14, 4, 9, 12, 18,

(a) What is the mode of the points scored?

..... [1]

(b) Complete the frequency table.

	Tally	**Frequency**
0 – 4		
5 – 9		
10 – 14		
15 – 19		

[1]

26 At midday the temperature in Moscow was 7°C.
At midnight it was –3°C.

By how many degrees did the temperature fall?

..... °C [1]

27 **(a)** Here are four fractions.

$\frac{1}{50}$ $\frac{50}{100}$ $\frac{100}{50}$ $\frac{1}{5}$

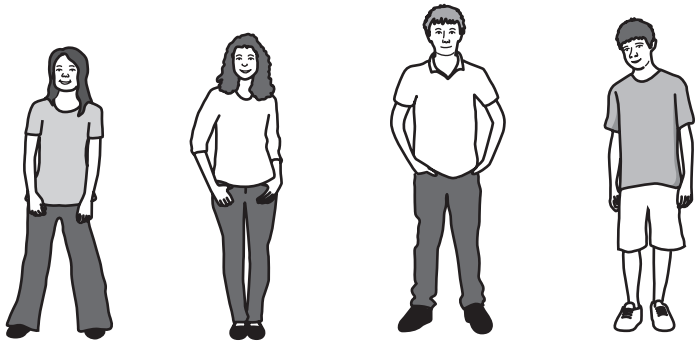
Which fraction is equivalent to 0.5?

..... [1]

(b) What is $\frac{7}{10}$ of 650?

..... [1]

28 **(a)** Here are the heights of some children.



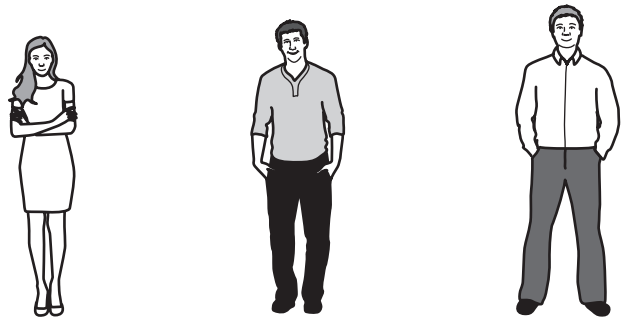
134 cm 142 cm 156 cm 145 cm

Calculate the range of their heights.

..... cm [1]

(b) The range of the heights of three adults is 17cm.

Write down possible heights of the shortest and tallest adults.



..... cm 165 cm ..... cm

[1]

29 **(a)** Write three **different** whole numbers in the boxes to make the multiplication correct.

The numbers must be greater than 1.

$\square \times \square \times \square = 60$

[1]

(b) Write whole numbers in the boxes to make this division correct.

The numbers must be greater than 1.

$\square \div \square = 60$

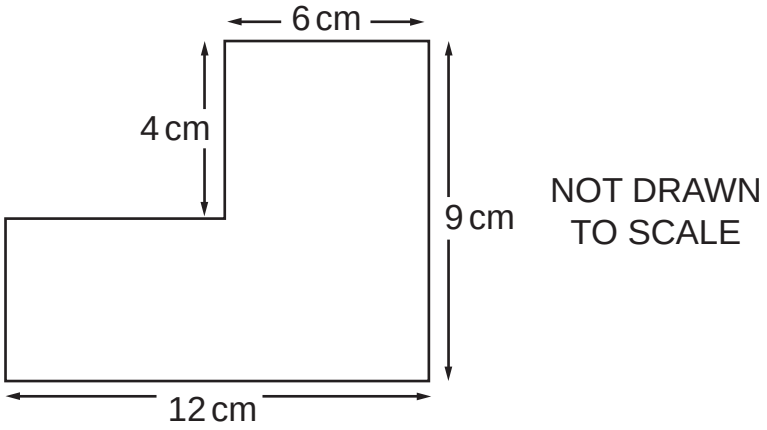
[1]

30 Write in the missing digits to make this calculation correct.

$$\begin{array}{r} \square\,7\,\square \\ \times\quad 6 \\ \hline 1\,0\,3\,2 \end{array}$$

[1]

31 Here is a compound shape made from two rectangles.



(a) Calculate the perimeter of the shape.

.....cm [1]

(b) Calculate the area of the shape.

.....cm^2 [1]

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

MATHEMATICS **0845/02**

Paper 2 **For Examination from 2014**

SPECIMEN PAPER

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen, Pencil, Ruler, Protractor, Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **17** printed pages and **1** blank page.

1 Complete the table.

The first row has been done for you.

In words	In figures
Six hundred and forty	640
Seven thousand, nine hundred and six	
	2079

[1]

2 Use either < or > to make each statement correct.

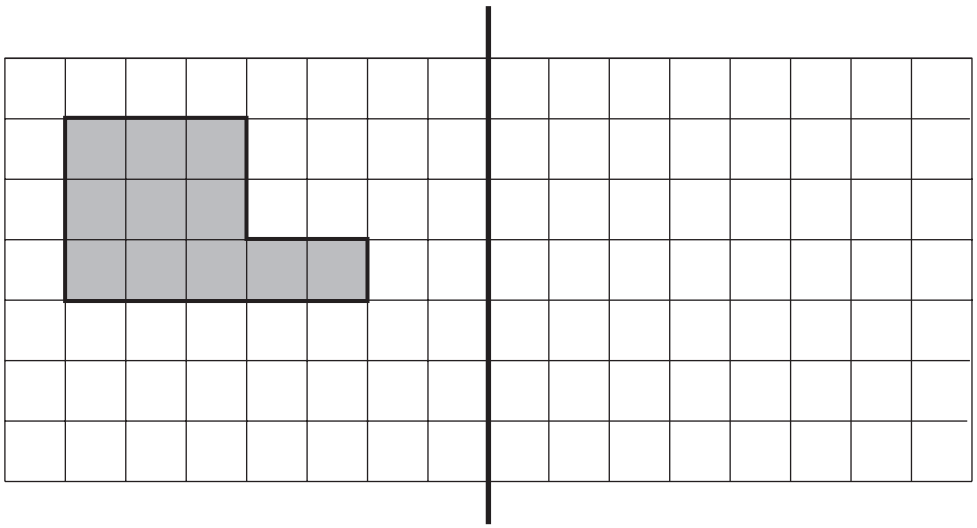
112 ☐ 102

1121 ☐ 1211

2111 ☐ 1112

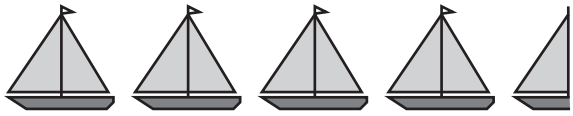
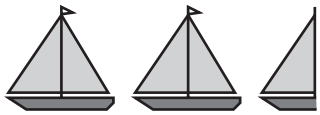
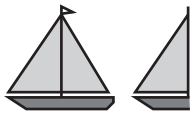
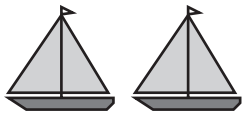
[1]

3 Draw the reflection of the shape in the mirror line.



[1]

4 George counts the number of boats sailing into a harbour on 5 days.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

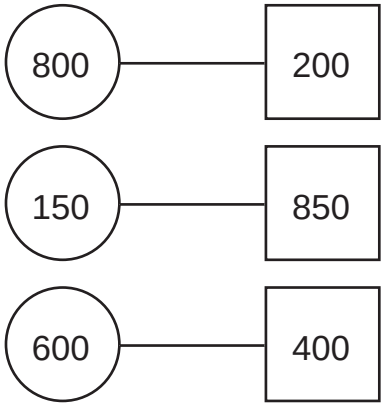
Key  represents 10 boats

 represents 5 boats

How many boats does George count sailing into the harbour altogether?

..... boats [1]

5 **(a)** Each diagram shows a pair of numbers, one in a circle and one in a square.

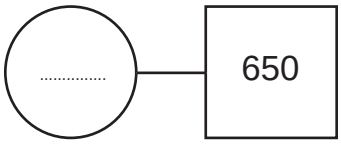


Describe the connection between the pairs of numbers.

.....

..... [1]

(b) The numbers in this diagram are connected in the same way.
Fill in the missing number.



[1]

6 Draw a ring around the number which has the digit 5 in the thousands column.

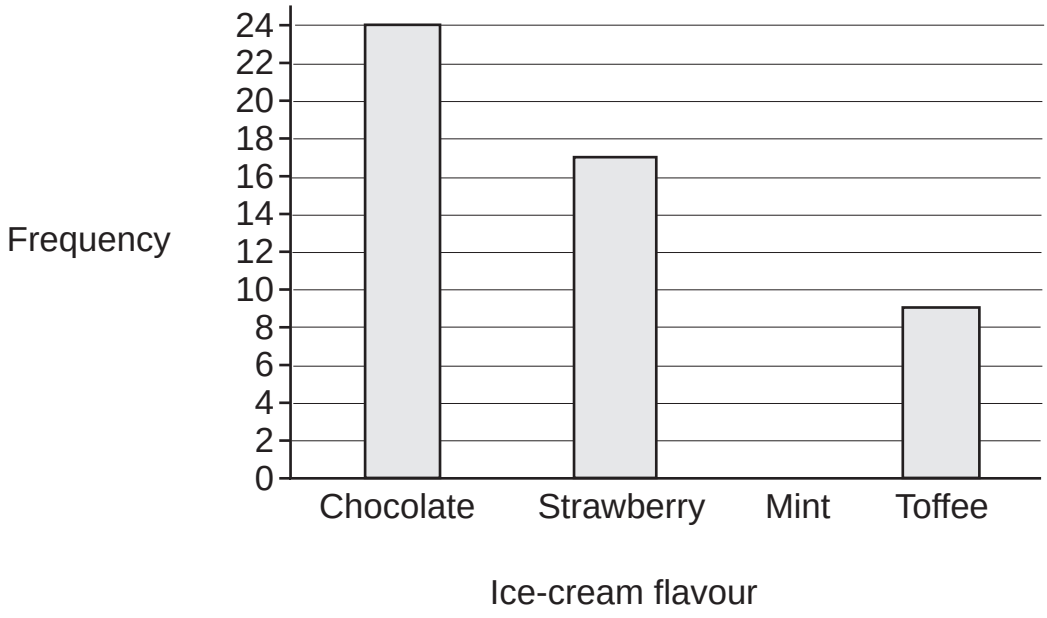
65 302 51 302 69 502 48 352 [1]

7 Marcel sells ice-creams.
One day he keeps a tally of his sales.

Flavour	Tally	Frequency
Chocolate	𝍸 𝍸 𝍸 𝍸 ||||	24
Strawberry	𝍸 𝍸 𝍸 ||	
Mint	𝍸 𝍸 |||	13
Toffee	𝍸 ||||	

(a) Complete the frequency column. [1]

(b) He puts all of this information into a bar chart. Draw the bar for mint.



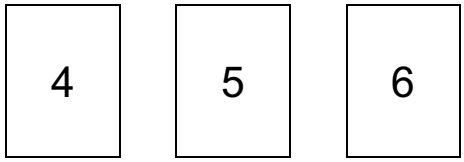
[1]

8 Write the missing number.

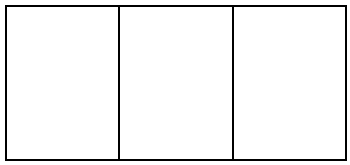
$$\frac{1}{3} + \boxed{} = 1$$

[1]

9 Tina has these three cards.



Use each card **once** to make the largest possible number that will divide by 5 exactly.



[1]

10 Put a tick (✓) next to the calculation that is the same as $\frac{1}{4}$ of 12

12×4 ☐

$12 - 4$ ☐

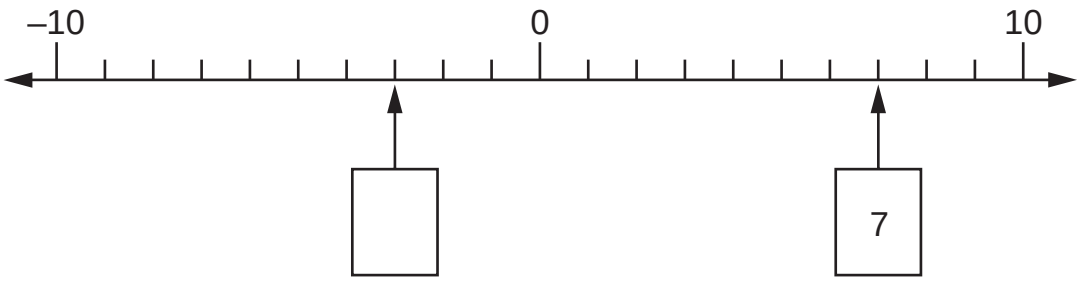
$12 + \frac{1}{4}$ ☐

$12 \div 4$ ☐

$12 - \frac{1}{4}$ ☐

[1]

11 The difference between the two numbers in boxes shown on this line is 10
Write the missing number in the box.



[1]

12 **(a)** Round 8375 to the nearest thousand.

..... [1]

(b) Round 3.66 to the nearest tenth.

..... [1]

13 Here are four digit cards.

0	1	3	5

Use these cards to complete this calculation. Each card must only be used once.

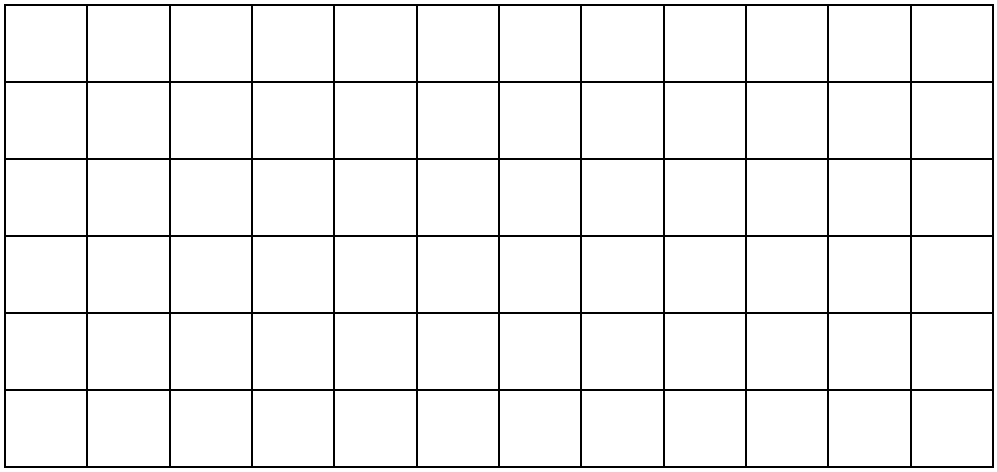
		×			= 450

[1]

14 **(a)** Clara is investigating the following statement:

> Some quadrilaterals have exactly two lines of symmetry.

On the grid below, draw an example of a shape that shows this statement to be **true**.



[1]

(b) Adam is investigating this statement:

> Some triangles contain exactly two right angles.

Explain why this statement is **false**.

.....

..... [1]

15 Complete the table of equivalent fractions, decimals and percentages.

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
	0.4	
$\frac{3}{4}$		

[2]

16 Here is a number grid.

74	75	76
84	85	86
94	95	96

Circle the number that can be divided by 7 with a remainder of 1.

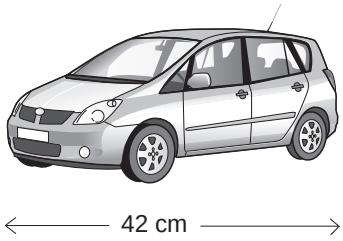
[1]

17 What is the missing number?

$\square \div 5 = 24$

[1]

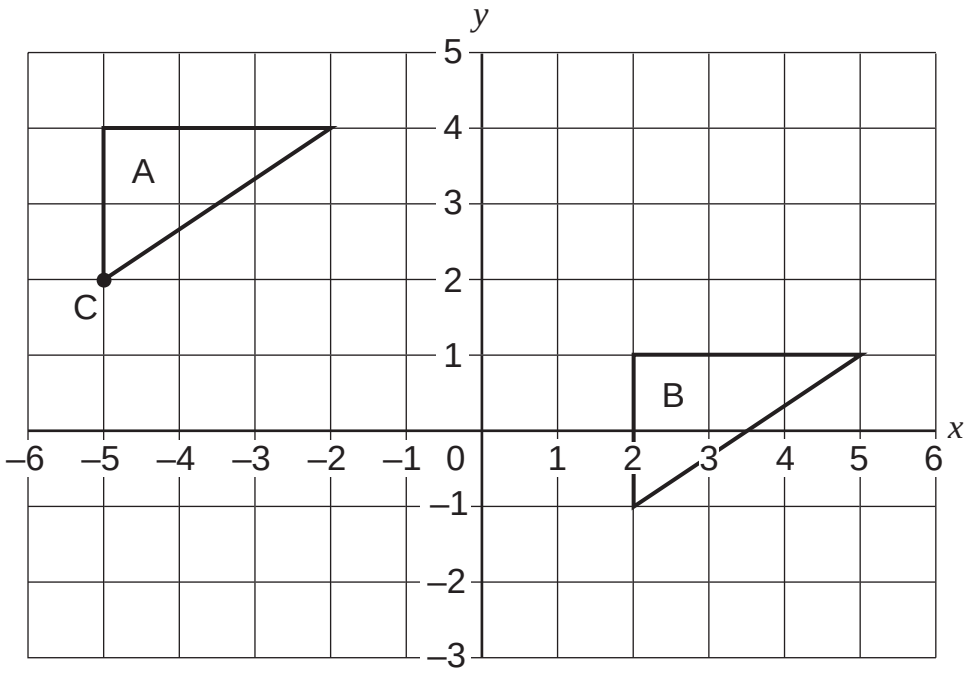
18 A model of a car is one tenth of the size of the real car.
The model measures 42 cm long.



What is the length of the real car?
Give your answer in centimetres.

..... cm [1]

19 Here are 2 triangles on a grid.



(a) What are the co-ordinates of point C?

(..... , ...) [1]

(b) Describe the translation that moves triangle A to triangle B.

..... [1]

20 Use one of the symbols to complete each number sentences.

< = >

$\frac{5}{8}$ ☐ $\frac{3}{8}$

$\frac{6}{8}$ ☐ $\frac{3}{4}$

$\frac{3}{8}$ ☐ $\frac{1}{2}$ [1]

21 The distance between two towns is 50 miles.

Tick (✓) the best approximation of 50 miles in kilometres.

8 kilometres ☐

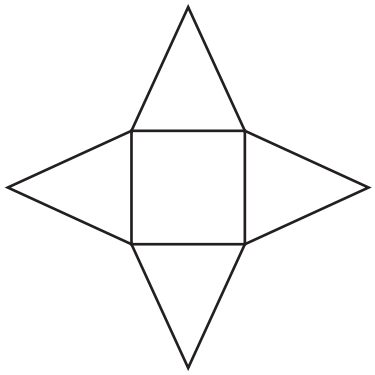
30 kilometres ☐

80 kilometres ☐

200 kilometres ☐

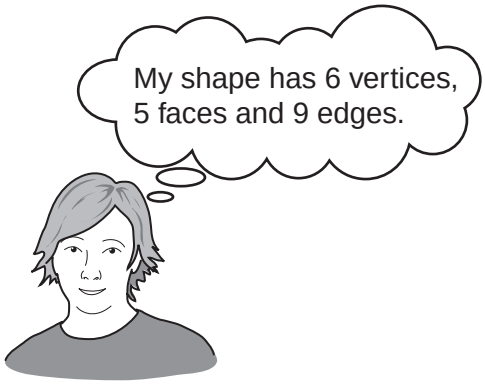
500 kilometres ☐ [1]

22 Here is a net of a 3D shape.



(a) What 3D shape does it make? ..... [1]

(b) Alex thinks of a 3D shape.



Write down the name of the 3D shape Alex is thinking of.

..... [1]

23 Here are four measurements.

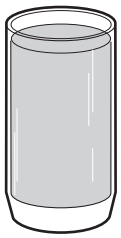
20 cm	1 m	30 mm	2.5 cm

Order the measurements from smallest to largest.

smallest largest

[1]

24 A glass holds 225 millilitres of water.



Peter drinks 1.8 litres of water during a day.

How many glasses of water does he drink during the day?

..... [1]

25 **(a)** Layla is writing the prime numbers in order.

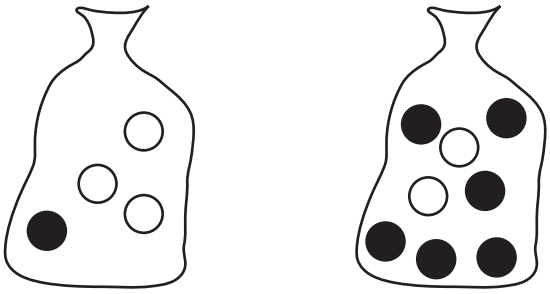
Write in the prime numbers she has missed.

2, 3, 5, 7, ….., 13, ….., 19, 23 [1]

(b) Write the next two numbers in the sequence.

1, 4, 9, 16, 25, ….., ….., [1]

26 Here are two bags.



bag A bag B

Bag A has 1 black bead and 3 white beads.
Bag B has 2 white beads and 6 black beads.

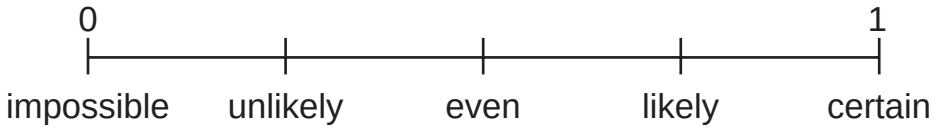
Isaac takes a bead without looking from each bag in turn.

(a) What is the probability of Isaac taking a black bead from bag A?
Draw a ring around one answer.

certain impossible even likely unlikely

[1]

(b) What is the probability of Isaac taking a black bead from bag B?
Mark your answer with an arrow (↓) on the probability line.



[1]

27 Here is part of a train timetable.

Both trains take the same time to travel between stations.

	Train A	**Train B**
Longfield	09 39	12 31
Stoneton	09 56	12 48
Middleton	10 20	
Churchville	10 28	13 20
Postley	10 33	13 25

(a) Fill in the missing time for Train B. [1]

(b) What is the journey time between Longfield and Churchville?

..... minutes [1]

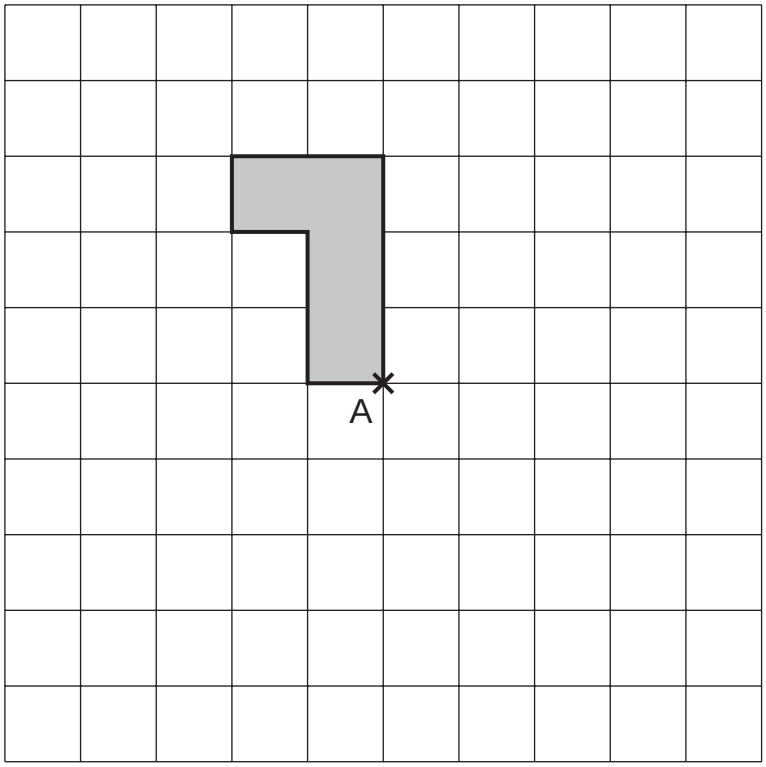
28 The price of a coat is $45

In a sale the price is reduced by 15%.

Work out the price of the coat in the sale.

$ ..... [1]

29 Rotate the shape clockwise through an angle of 90° about vertex A.



[1]

30 Fill in the missing digits to make this addition correct.

2	6		+	5		4	=		1	7

[1]

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