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Cambridge Primary Checkpoint

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge Primary Checkpoint

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

* 5 6 4 7 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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Total	

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

UNIVERSITY of CAMBRIDGE International Examinations

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.

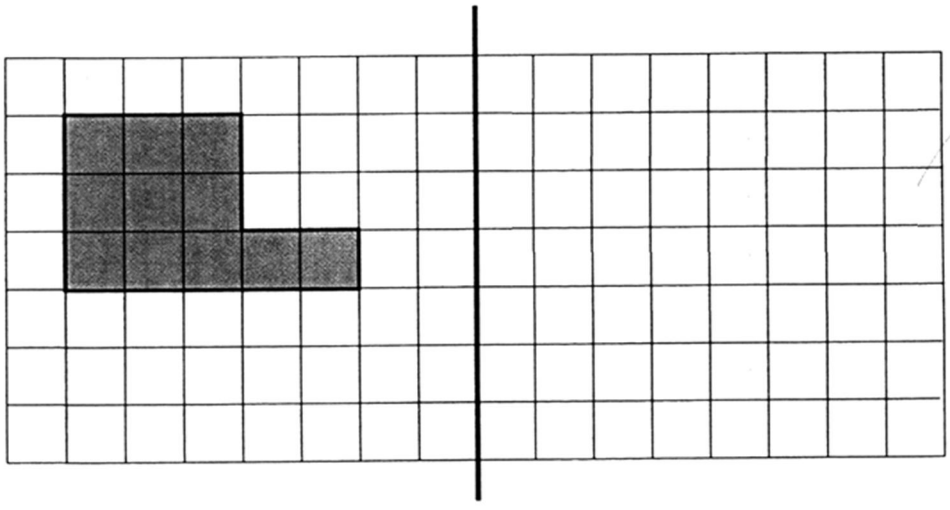
112 ☐ 102

1121 ☐ 1211

2111 ☐ 1112

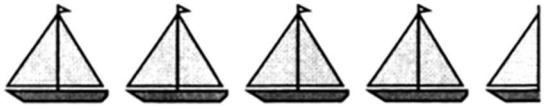
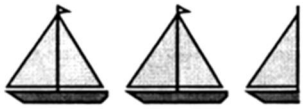
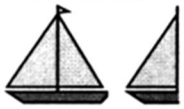
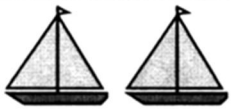
[1]

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

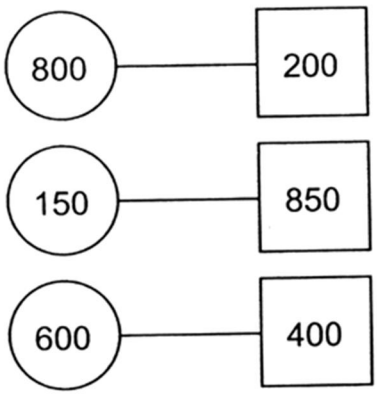
 represents 10 boats

 represents 5 boats

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

..... boats [1]

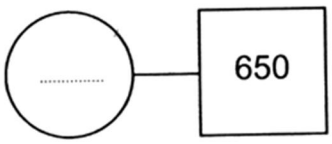
5 **(a)** Each diagram shows a pair of numbers, one in a circle and one in a square.



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.

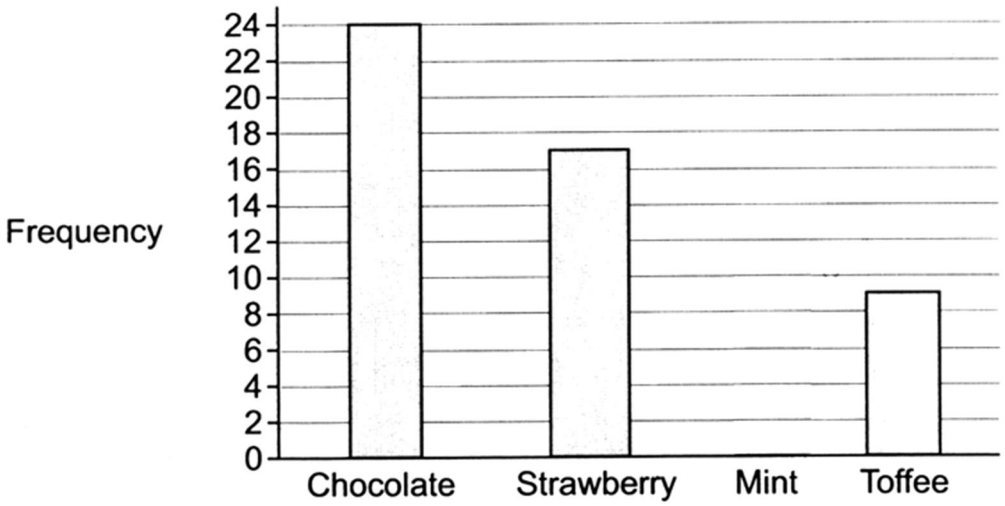
65 302 51 302 69 502 48 352 [1]

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.



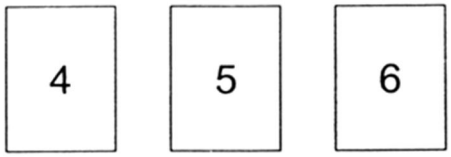
[1]

8 Write the missing number.

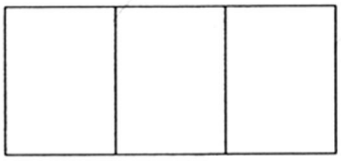
$$\frac{1}{3} + \boxed{} = 1$$

[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 ☐

$12 - 4$ ☐

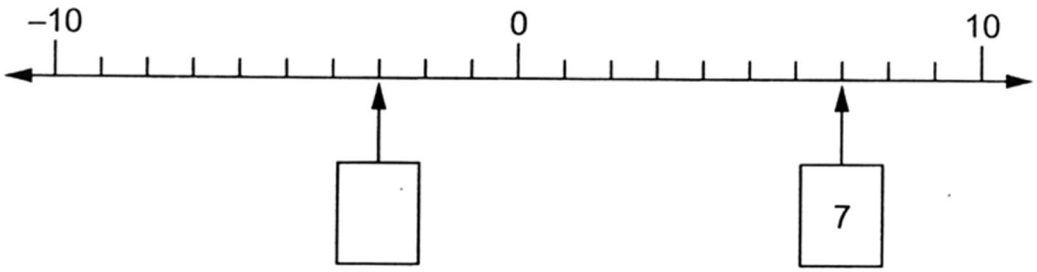
$12 + \frac{1}{4}$ ☐

$12 \div 4$ ☐

$12 - \frac{1}{4}$ ☐

[1]

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



[1]

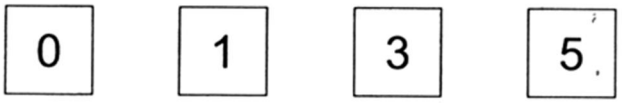
12 **(a)** Round 8375 to the nearest thousand.

..... [1]

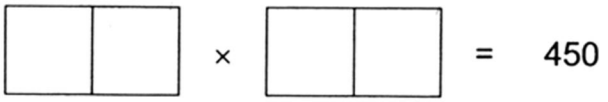
(b) Round 3.66 to the nearest tenth.

..... [1]

13 Here are four digit cards.



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

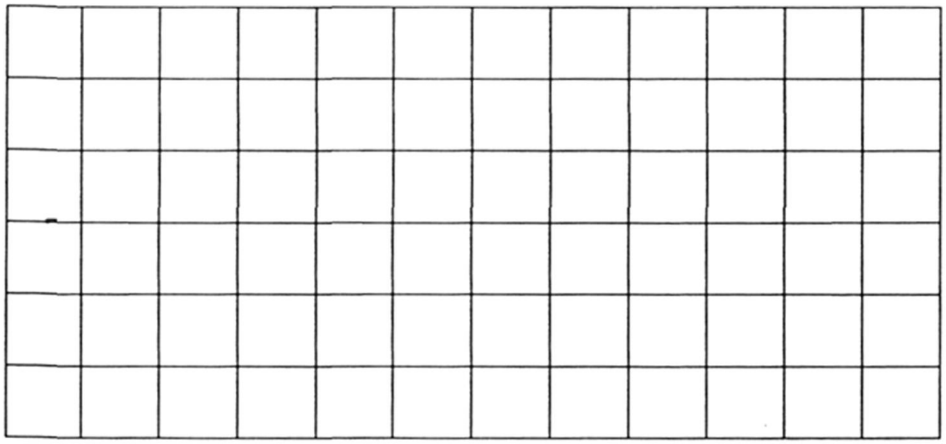


[1]

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	☐	☐
$47 \div 7 = 5\frac{6}{7}$	☐	☐
$37 \div 6 = 6\frac{1}{6}$	☐	☐

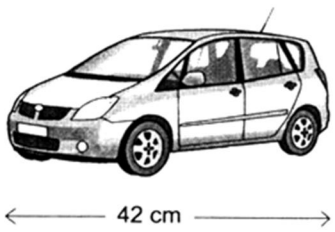
[1]

(b) Complete this calculation.

☐ $\div 7 = 4\frac{2}{7}$

[1]

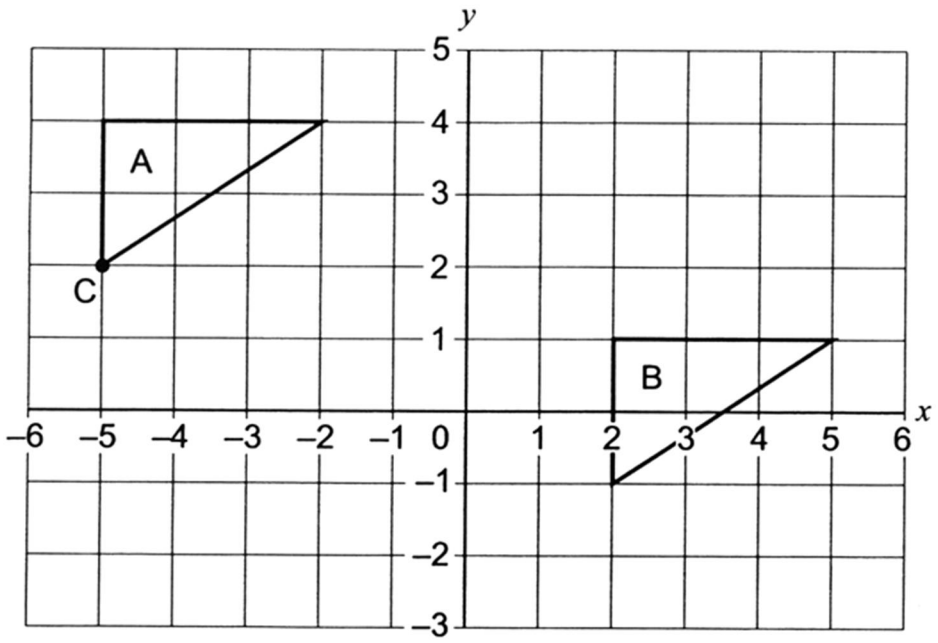
17 A model of a car is one tenth of the size of the real car.
The model measures 42 cm long.



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]

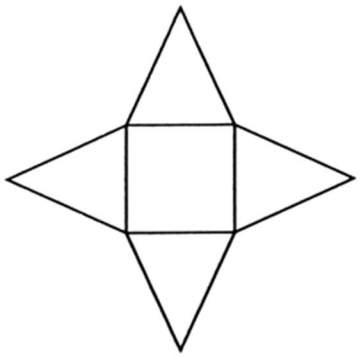
20 The distance between two towns is 50 miles.

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

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

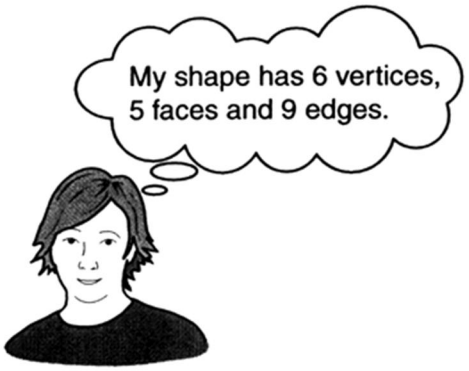
[1]

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.

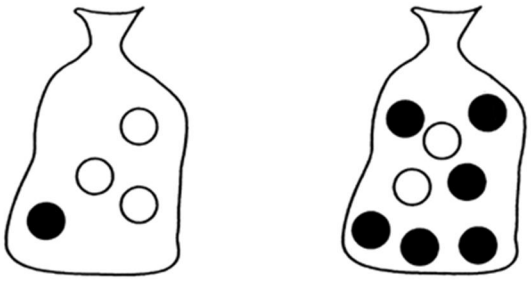
Write in the prime numbers she has missed.

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.

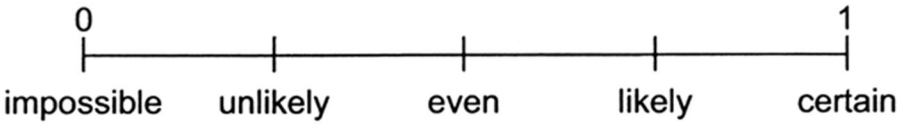
Isaac takes a bead without looking from each bag in turn.

(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]

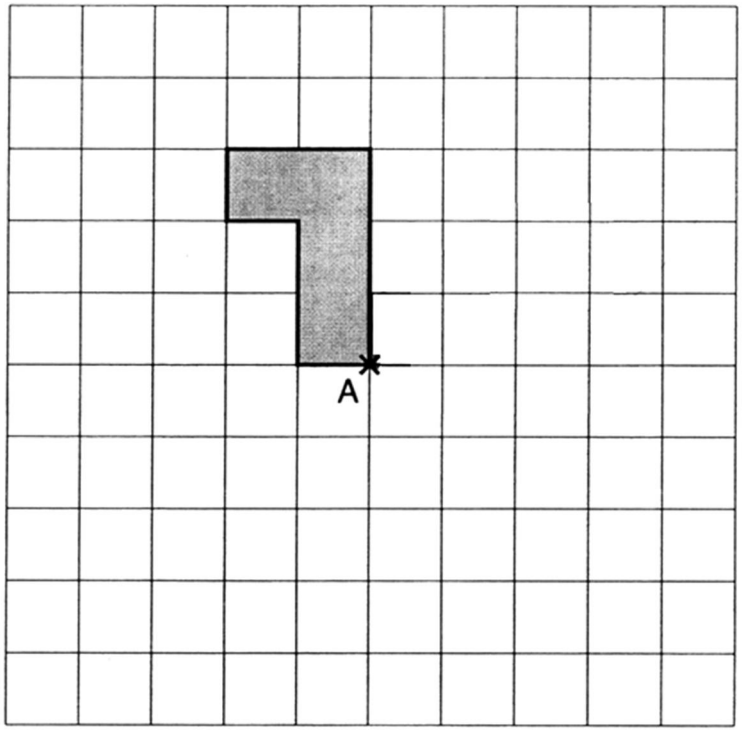
26 The price of a coat is $45

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]