



Cambridge  
Primary  
Checkpoint

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
Cambridge Primary Checkpoint

CANDIDATE  
NAME

CENTRE  
NUMBER

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CANDIDATE  
NUMBER

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**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**

1	
2	
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11	
12	
13	
14	
15	
16	
<b>Total</b>	

This document consists of 16 printed pages.





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	7906
Two thousand seventy nine	2079

[1]

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

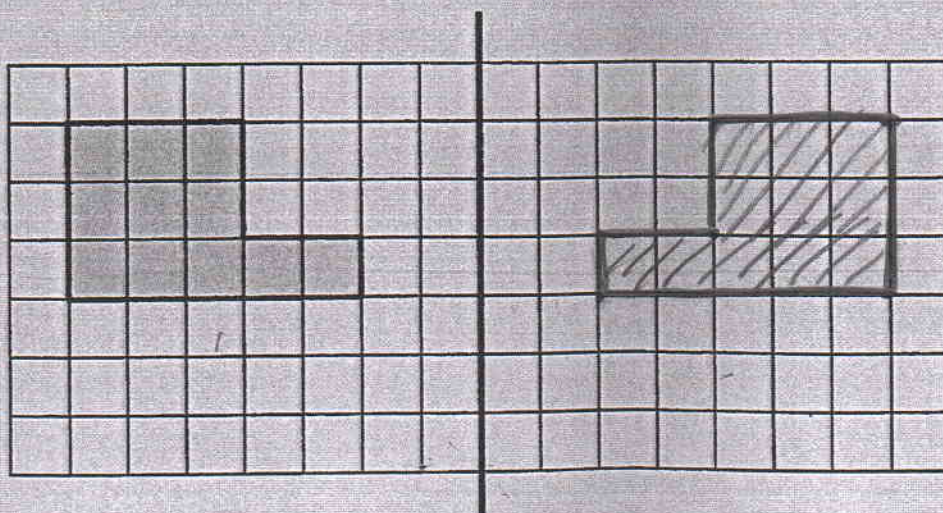
112 > 102

1121 < 1211

2111 > 1112

[1]

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



mirror line

[1]





DO NOT WRITE IN THIS MARGIN



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?

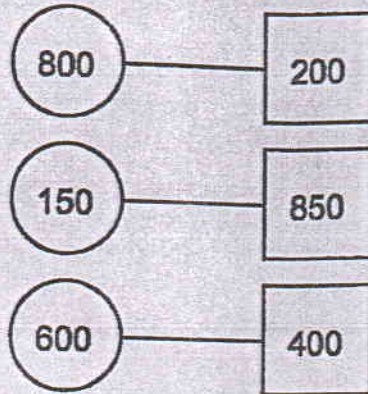
155

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.

When we add the numbers in the circles and the numbers in the square, their sum is 1000 [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]



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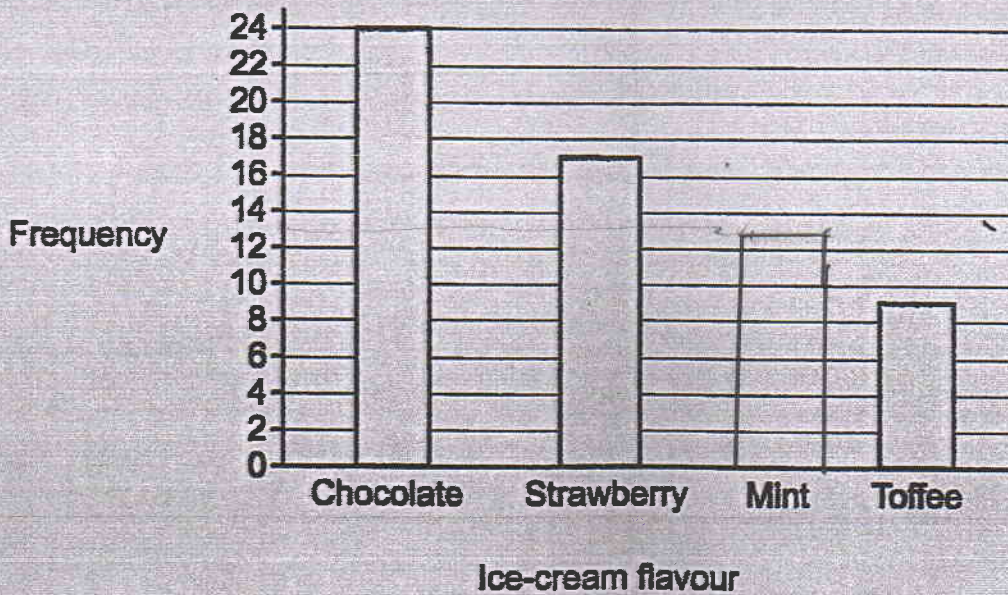
7 Marcel sells ice-creams.  
One day he keeps a tally of his sales.

Flavour	Tally	Frequency
Chocolate		24
Strawberry		17
Mint		13
Toffee		9

(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.

$$\frac{1}{3} + \boxed{\frac{2}{3}} = 1$$

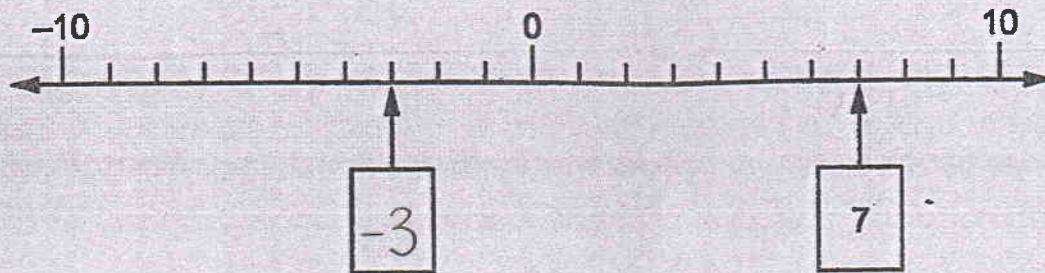
[1]







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.

8000

[1]

(b) Round 3.66 to the nearest tenth.

3.7

[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.

$$\begin{array}{|c|c|} \hline 3 & 0 \\ \hline \end{array} \times \begin{array}{|c|c|} \hline 1 & 5 \\ \hline \end{array} = 450$$

[1]









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

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
$\frac{4}{10}$	0.4	40%
$\frac{3}{4}$	0.75	75%

[2]

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

	True	False
$27 \div 5 = 5 \text{ remainder } 2$	<input checked="" type="checkbox"/>	<input type="checkbox"/>
$47 \div 7 = 5 \frac{6}{7}$	<input type="checkbox"/>	<input type="checkbox"/>
$37 \div 6 = 6 \frac{1}{6}$	<input checked="" type="checkbox"/>	<input type="checkbox"/>

[1]

(b) Complete this calculation.

30 + 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.

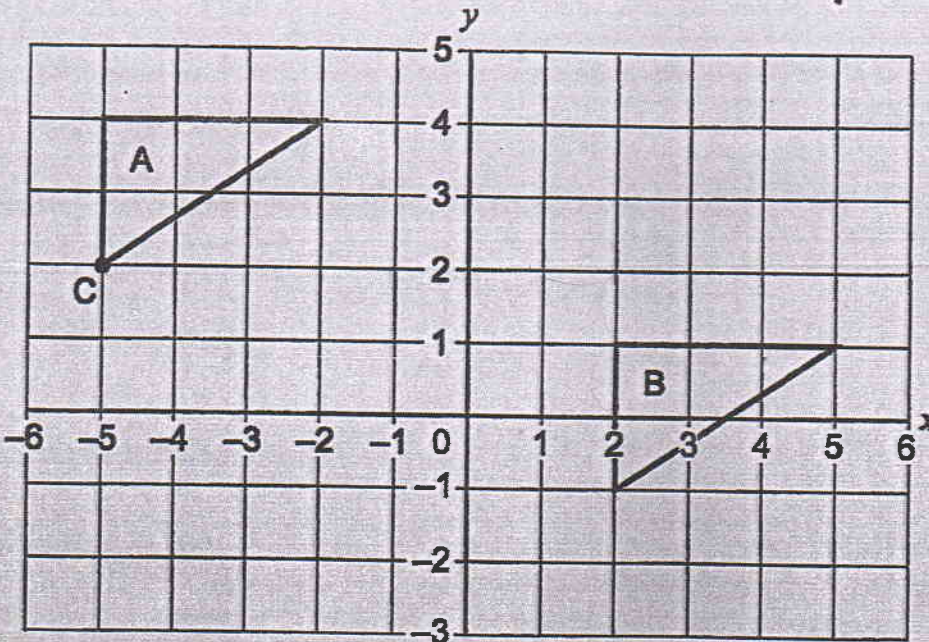


What is the length of the real car?  
Give your answer in centimetres.

$$\frac{1}{10} \text{ of } \dots = 42$$

$$\rightarrow \frac{42 \times 10}{1} = \dots 420 \text{ cm [1]}$$

- 18 Here are 2 triangles on a grid.



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

$$(-5, 2) \text{ [1]}$$

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

7 units to the right and 3 units down [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

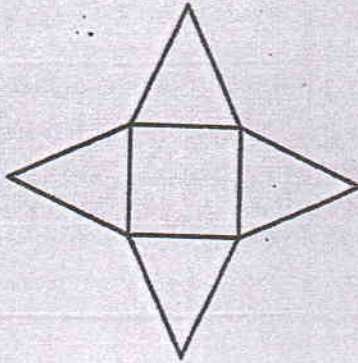
500 kilometres

[1]





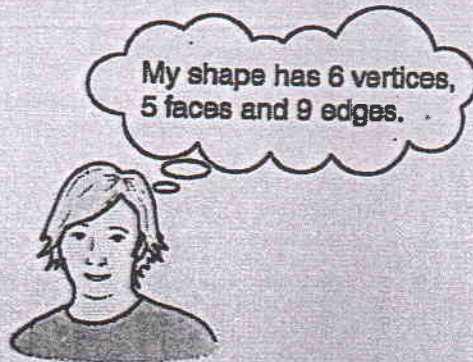
21 Here is a net of a 3D shape.



(a) What 3D shape does it make?

square based pyramid [1]

(b) Alex thinks of a 3D shape.



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

Triangular prism [1]



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22 (a) Write 2.456 kilometres in metres.

$$2.456 \times 1000$$

2456 m [1]

(b) Write 256 grams in kilograms.

$$256 \div 1000$$

0.256 kg [1]

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

Write in the prime numbers she has missed.

2, 3, 5, 7, 11, 13, 17, 19, 23 [1]

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

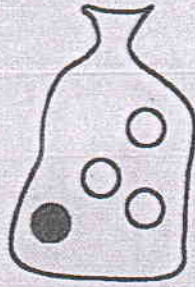
1, 4, 9, 16, 25, 36, 49 [1]

*(Handwritten arrows showing differences: +3, +5, +7, +9, +11, +13)*

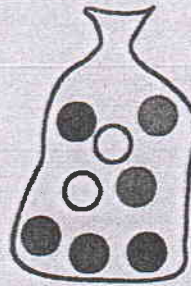




24 Here are two bags.



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

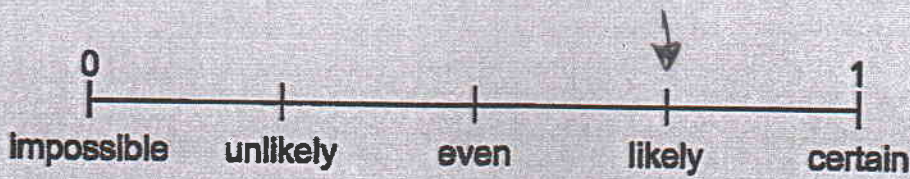
even

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]



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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	13:12
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?

$Train A = 10.28 - 9.39$   
 or  $Train B = 13.20 - 12.31 = 0.89$  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.

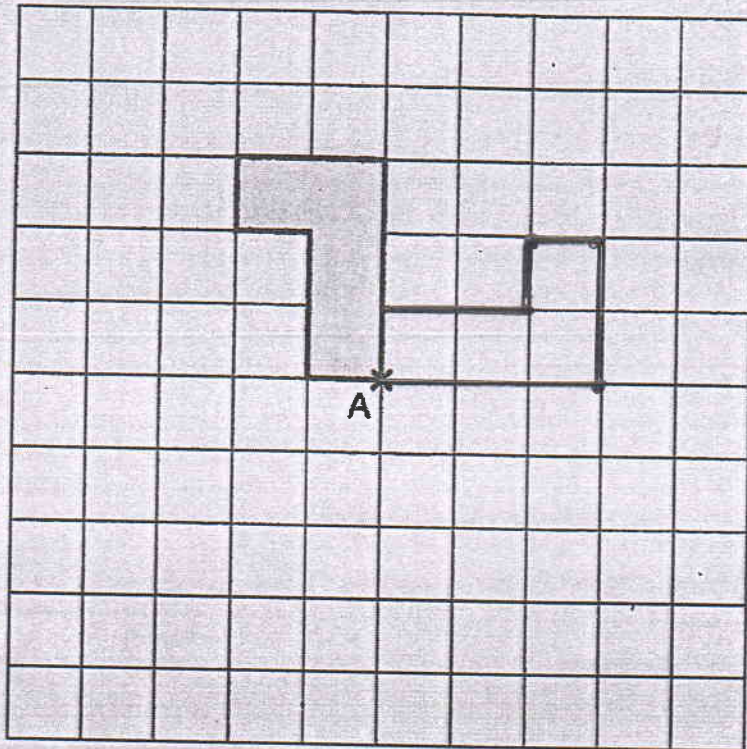
$\frac{15}{100} \times 45 = 6.75$   
 $45 - 6.75 =$   
 \$ ..... 38.25 ..... [1]





DO NOT WRITE IN THIS MARGIN

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	3	+	5	5	4	=	8	1	7
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[1]

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