



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
Cambridge International Primary Achievement Test

CANDIDATE  
NAME

CENTRE  
NUMBER

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CANDIDATE  
NUMBER

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**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	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	/
<b>Total</b>	

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



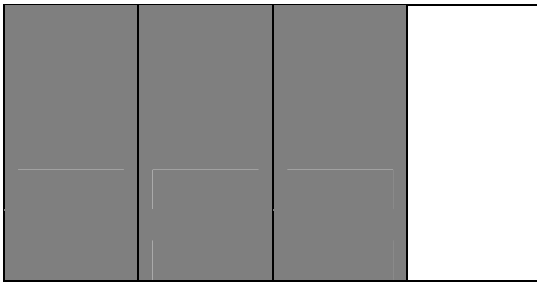
1 Write these numbers in order of size, starting with the **smallest**.

**83      38      3      8**

..... , ..... , ..... , .....  
**smallest** **largest**

[1]

2 What fraction of this shape is shaded?



..... [1]

3 Here is part of a number sequence.

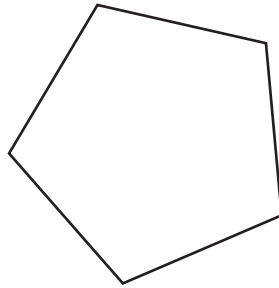
Fill in the missing number.

347,    337,    327,    .....,    307

[1]

Page Total

4 Here is a regular polygon.



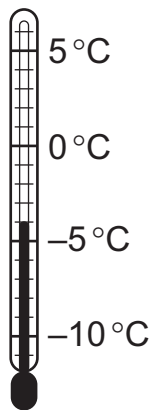
(a) What is its name?

..... [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

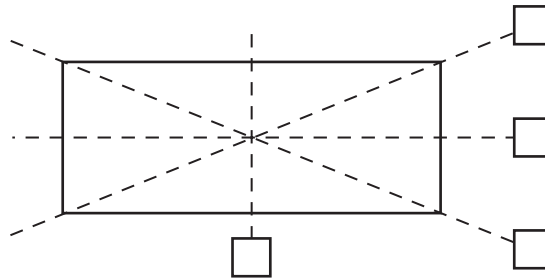
minutes

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?

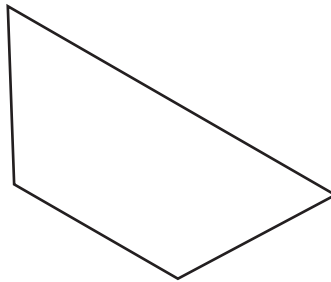
..... [1]

11 Match the numbers to their doubles.

	32
8	18
	22
17	16
	24
11	34
	14

[1]

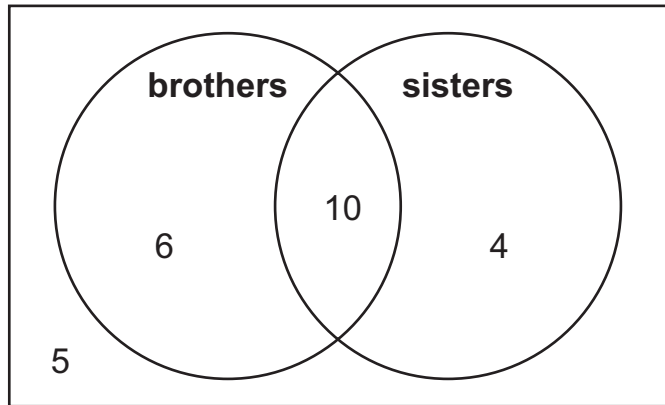
12 Tick (✓) the parallel lines on this shape.



[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

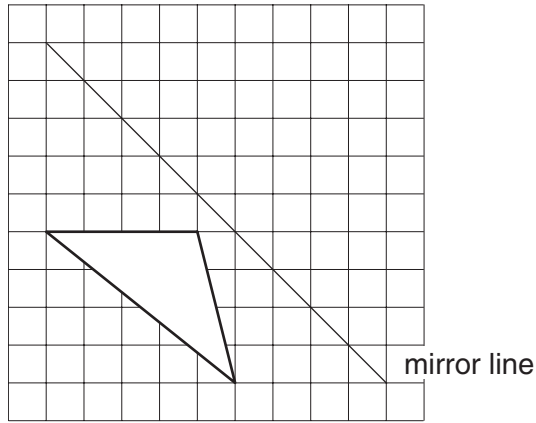
4000

[1]

Page Total



20 Reflect the shape in the mirror line.



[1]

21 Calculate  $(25 - 7) + (3 \times 4)$

[1]

22 Draw an angle of  $75^\circ$ .



[1]

23 Write 60 as a product of prime factors.

[2]

Page Total

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

<b>a</b>	0	1	2	3
<b>b</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]

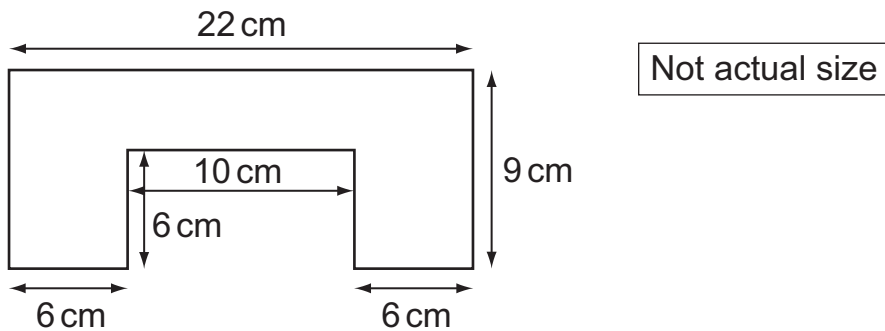
25 Utete writes some calculations.

Write inverse calculations to show that he is correct.

$48 \div 12 + 3 = 7$  .....

$3 \times 6 + 7 - 4 = 21$  ..... [2]

26 Calculate the perimeter and area of this shape.



Perimeter .....cm [1]

Area .....cm<sup>2</sup> [2]

Page Total

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

$$\begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array} \times \begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline 0 \\ \hline \end{array} = 10500$$

[1]

Page Total

[Turn over]

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