

Centre Number	Candidate Number	Name
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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**CAMBRIDGE INTERNATIONAL PRIMARY ACHIEVEMENT TEST**

**MATHEMATICS** **0842/02**

Paper 2 November 2006

**45 minutes**

Candidates answer on the Question Paper  
Candidates require: 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.

For Examiner's Use	
Page	Mark
1	/
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12	
<b>Total</b>	

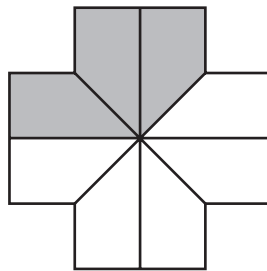
1 Complete the statements.

$$16 + \square = 20$$

$$20 - \square = 9$$

[2]

2 Look at the picture below.



What fraction of the cross is shaded?

..... [1]

3 The first five multiples of 3 are **3, 6, 9, 12, 15**.

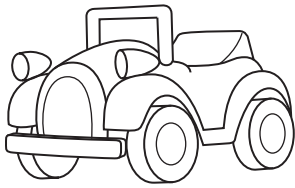
The first five multiples of 5 are **5, 10, 15, 20, 25**.

What is the lowest common multiple of 3 and 5?

..... [1]

Page Total

4 Michael has 20 toy cars.

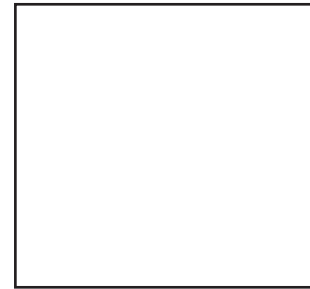
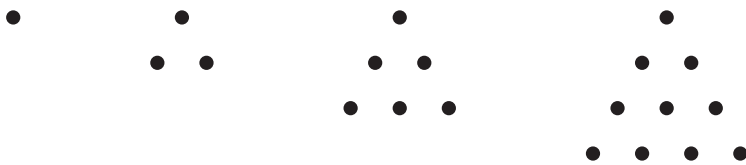


$\frac{1}{4}$  of the cars are broken.

What percentage of the cars are broken?

..... % [1]

5 (a) Here is a pattern.



(i) Draw in the box the next picture in the pattern.

[1]

(ii) Explain how the pattern is formed.

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

(b) Here is a number sequence.

1                      3                      6                      10

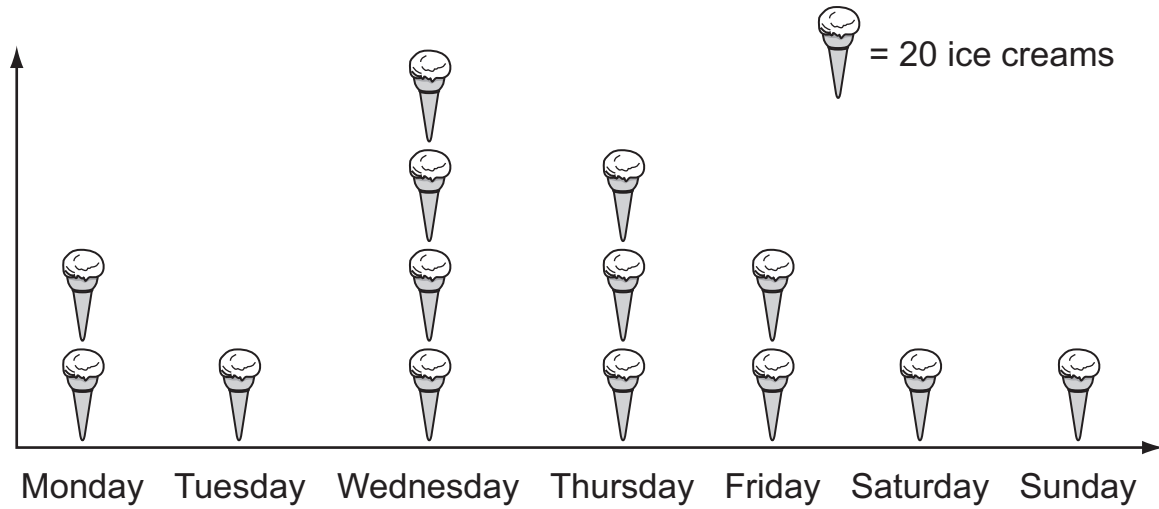
Write the next number in the sequence.

..... [1]

Page Total

6 Lena sells ice creams.

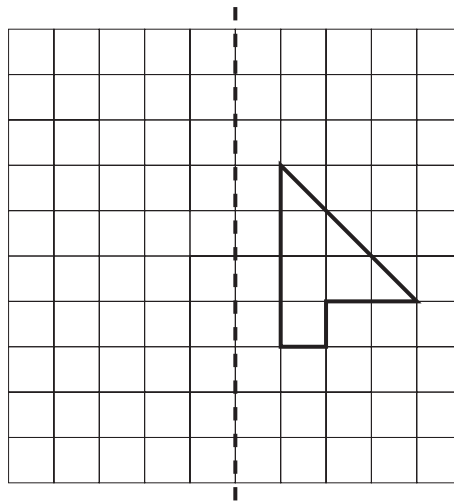
The pictogram below shows the number of ice creams sold in one week.



How many ice creams does Lena sell on a Thursday?

..... [1]

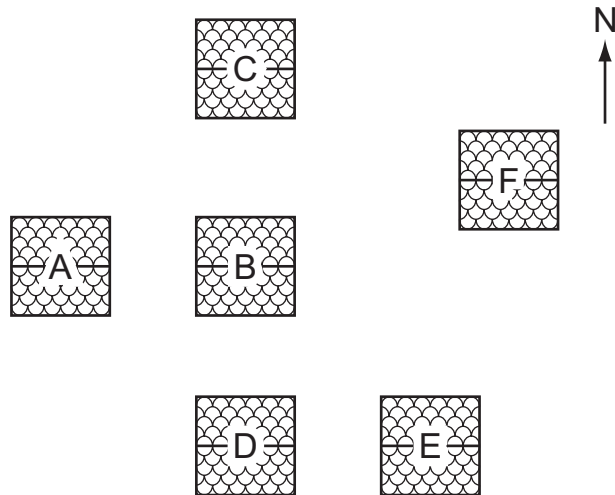
7 Reflect this shape in the mirror line.



[1]

Page Total

8 Here is a map showing some buildings.



(a) Charles stands at building **A**.

In which direction must he walk to reach building **B**?

..... [1]

(b) He now stands at building **D**.

In which direction must he walk to reach building **F**?

..... [1]

9 Complete these statements.

..... cm = 1 m

..... mm = 1 m

[1]

10 Write this decimal as a fraction.

1.08

..... [1]

Page Total

11 Utete is in a class of 30 children.

20% of her class like tennis  
40% of her class like football.

(a) How many children like tennis?

..... [1]

(b) How many children like football?

..... [1]

12 Kylie has 6 boxes.  
Each box contains 4 cakes.

Kylie writes a calculation to find out how many cakes she has in total.

$$6 \times 4$$

(a) Write a **different** way to calculate the total number of cakes.  
You must **not** use multiplication.

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

(b) Kylie calculates that she has 24 cakes.

$$6 \times 4 = 24$$

Write a statement using the numbers and symbols below to check that Kylie is correct.

24	4	6	+	-	×	÷	=
----	---	---	---	---	---	---	---

--	--	--	--	--

[1]

Page Total

13 Ashika spends \$113.94 on trousers.

Bindu says she will pay half the cost.

How much does each girl pay?

You **must** show your working.

\$ ..... [1]

14 Salote is 19 years old.

Salote's brother, Tama, is 4 years younger than her.

Salote's father is twice as old as Tama, plus the age of Salote.

How old is Salote's father?

Show your working.

..... years old [3]

Page Total

**15** Rhajiv does a maths test every week at school.

Here are the marks for his last eight tests.

35      36      35      34      37      40      28      35

**(a)** What is the modal mark?

..... [1]

**(b)** What is the range?

..... [1]

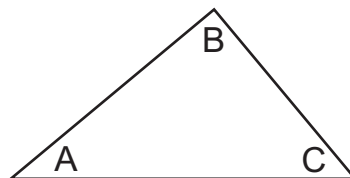
**(c)** What is the median mark?

..... [1]

**(d)** What is the mean mark?

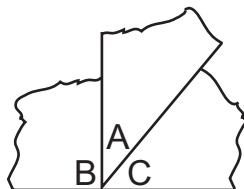
..... [1]

**16** Achilles draws a triangle.



He wants to calculate the sum of the angles in his triangle.

He tears off the corners and lines them up next to each other.



What is the sum of the three angles from the triangle?

..... ° [1]

**Page Total**

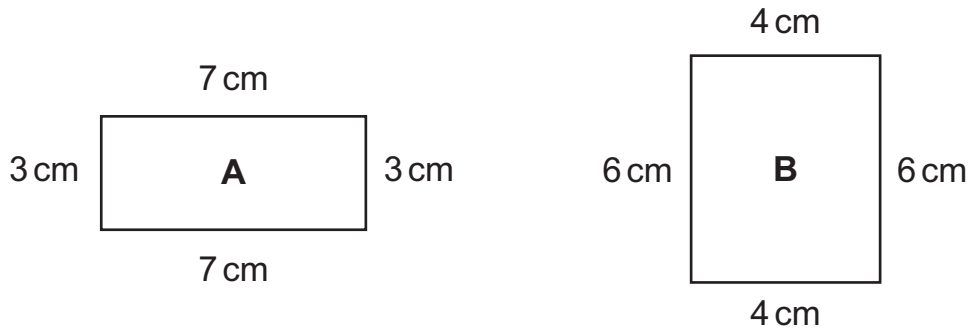


17 A jug holds 1.5 litres of milk.

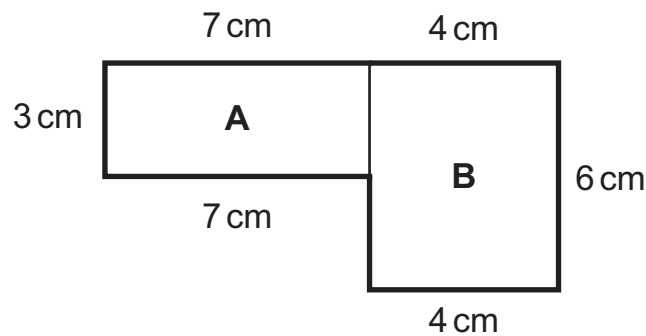
How many millilitres of milk is this?

..... ml [1]

18 Rectangle **A** has a perimeter of 20 cm and an area of  $21 \text{ cm}^2$ .  
Rectangle **B** has a perimeter of 20 cm and an area of  $24 \text{ cm}^2$ .



A new shape is made from these two rectangles.



(a) Calculate the perimeter of this new shape.

..... cm [1]

(b) Calculate the area of this new shape.

.....  $\text{cm}^2$  [1]

Page Total

- 19 (a)** Syafiq wants to build a fence round his garden.  
The perimeter of his garden is 43.48 m.

Fencing comes in lengths of 1 m.

Round 43.48 m to the nearest whole metre.

..... m [1]

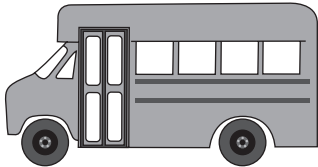
- (b)** Jasmine also wants to build a fence around her garden.  
The total perimeter of her garden is 56.76 m.

Jasmine finds a shop that will cut wood to the nearest 10 cm.

Round 56.76 m to 1 decimal place.

..... m [1]

- 20** Maria's school has 160 children.



All 160 children travel on buses to get to school.  
Each bus carries 25 children.

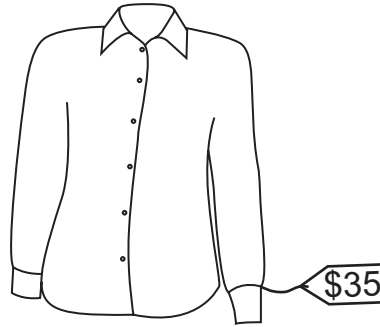
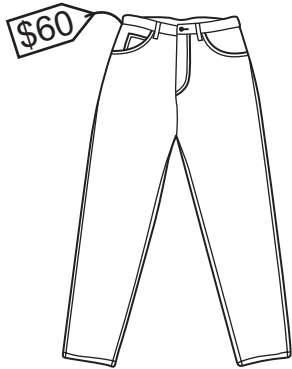
How many buses does the school need to carry all the children?

..... [1]

Page Total

21 Meri goes to the clothes shop.

She buys a pair of trousers that cost \$60 and a shirt that costs \$35.



There is a sale in the shop.

The trousers are 75% of the price shown.

The shirt is 60% of the price shown.

How much does Meri pay for her clothes?

You **must** show your working.

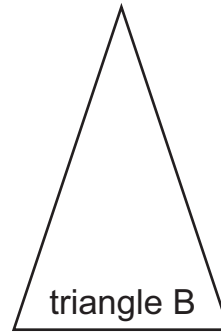
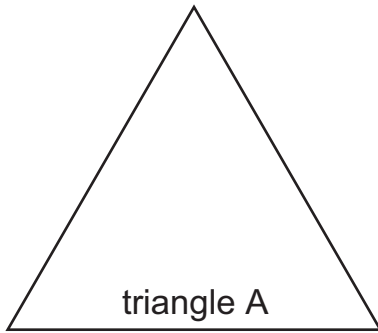
\$ ..... [3]



Page Total



22 Here are two triangles.



One is equilateral and one is isosceles.

Write **two** things that make an equilateral triangle different from an isosceles triangle.

1. ....  
.....

2. ....  
.....

[2]



23 Draw an angle of 117°.

[1]



Page Total



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