

Mathematics

Test B

2006

40 min

40 marks

Calculator Allowed

1. Write in the missing numbers.



$$35 \times \boxed{} = 140$$

1 mark

$$633 - \boxed{} = 34$$

1 mark

2. Draw one line from **each calculation** on the left to the correct box on the right.

One has been done for you.

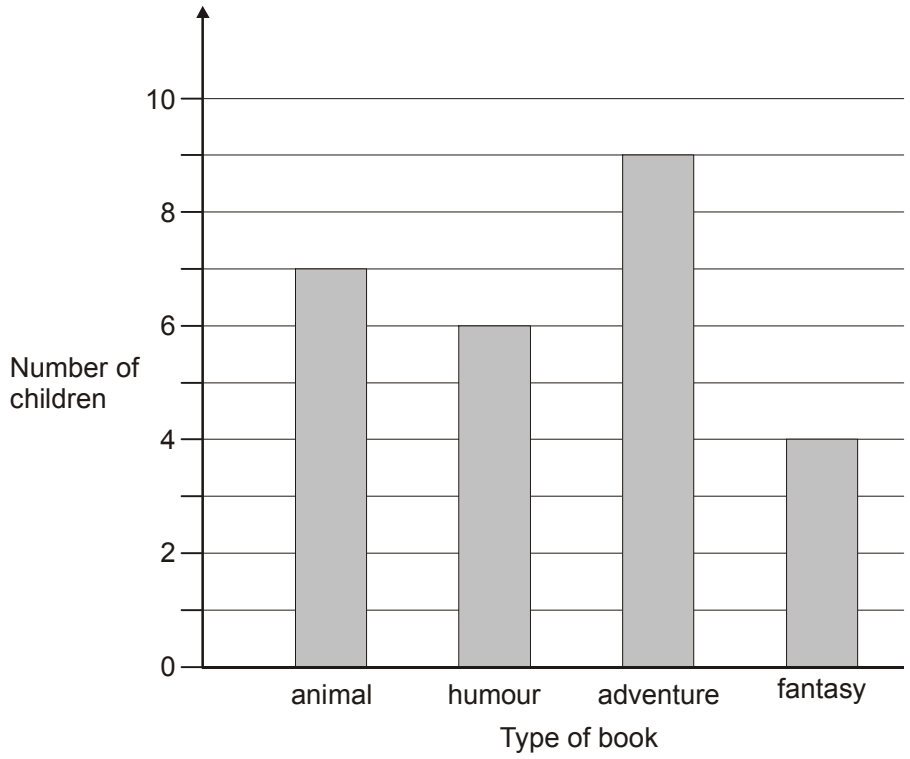


11×11	greater than 100
$4 \times 5 \times 6$	less than 100
$56 + 27 + 17$	equal to 100
$835 - 745$	
$4000 \div 50$	


2 marks

3. Class 6 did a survey of their favourite types of story book.

Here are their results.




How many more children chose **adventure** books than **fantasy** books?



1 mark

Five girls chose **animal** books.

How many boys chose **animal** books?



1 mark

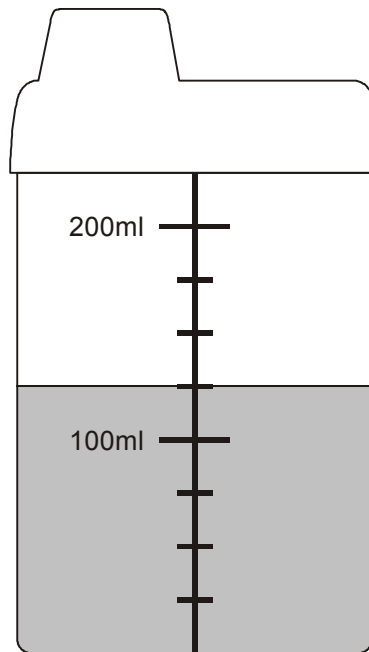
4. Each missing digit in this sum is a **9** or a **1**

Write in the missing digits.


 + + = 201

1 mark

5. Here is a baby's drinking cup.



How many millilitres of water are in the cup?

 ml

1 mark

6. These are the prices in a shoe shop.



boots
£45.50




sandals
£12.75



trainers
£34.99

How much **more** do the boots cost than the trainers?

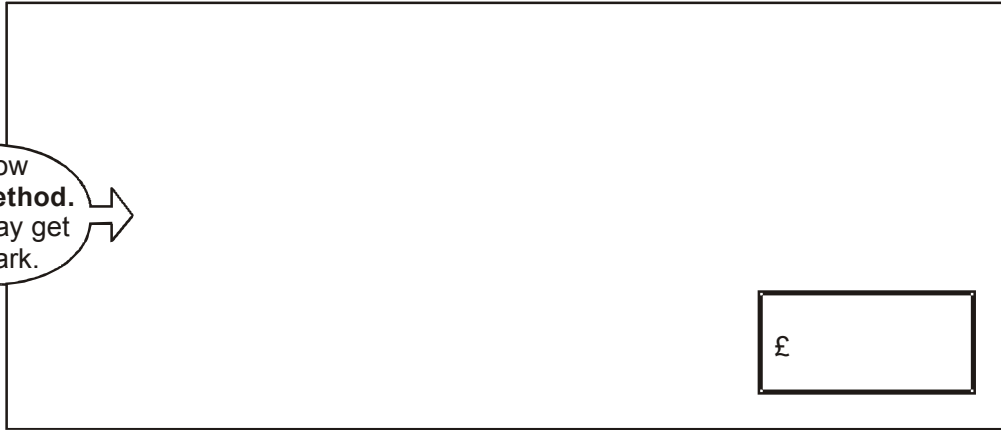
 ml

1 mark

Rosie buys a pair of trainers and a pair of sandals.

How much change she gets from **£50**?

Show
your **method**.
You may get
a mark.



2 marks

7. Put ticks (✓) and crosses (✗) on the chart to complete it correctly.

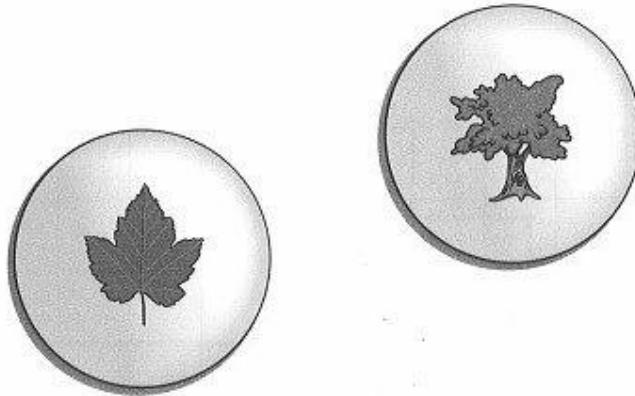
One has been done for you.



Shape	It is a quadrilateral	It has one or more right angles
	✗	✓


2 marks

8. Forest School sells badges for charity.




For each badge sold, **£1.20** is given to a charity.

How much does the charity get when **12** badges are sold?



1 mark

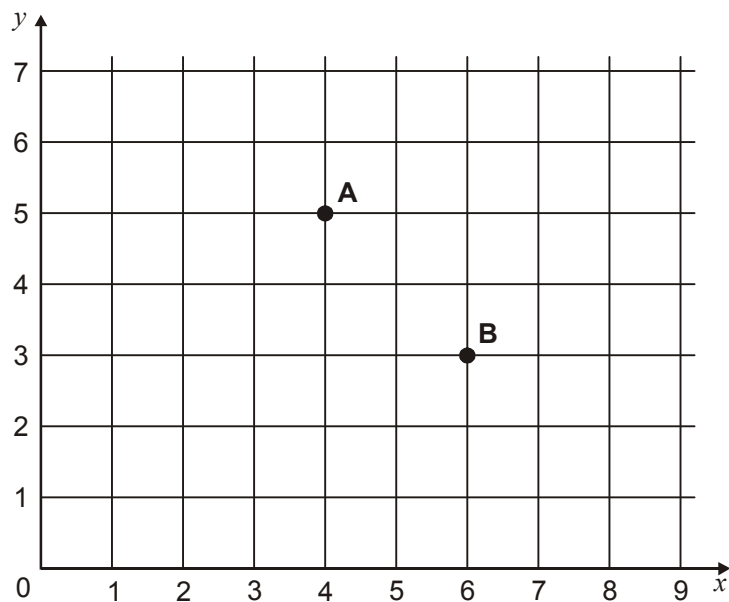
If the charity got **£24**, how many badges were sold?



1 mark


9. **A**, **B**, **C** and **D** are the vertices of a rectangle.

A and **B** are shown on the grid.



D is the point (3, 4)

Write the coordinates of point **C**.




1 mark

10. Here is a number sentence.

$$\boxed{?} + 27 > 85$$

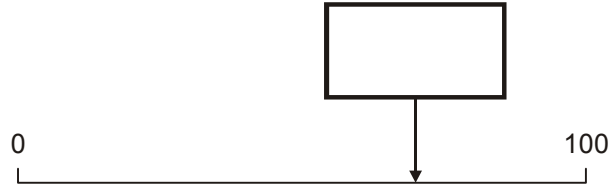
Circle **all** the numbers below that make the number sentence correct.

 30 40 50 60 70

1 mark

11. Here is a number line.

Estimate the number marked by the arrow.



1 mark

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

Write in the missing numbers



1 mark

13. Here is a sorting diagram with four sections, **A**, **B**, **C** and **D**.

	multiple of 10	not a multiple of 10
multiple of 20	A	B
not a multiple of 20	C	D

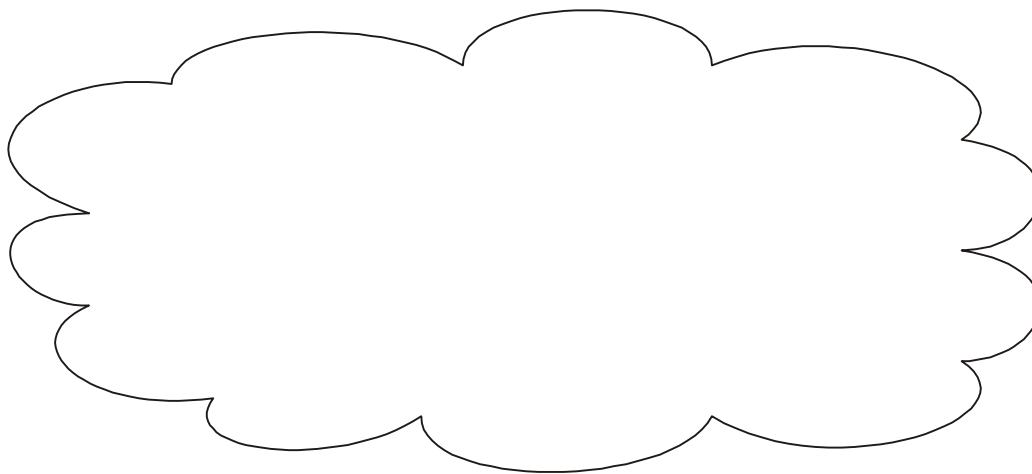
Write a number that could go in section **C**.



1 mark

Section **B** can never have any numbers in it.

Explain why.



1 mark

14. Calculate $\frac{3}{4}$ of £15



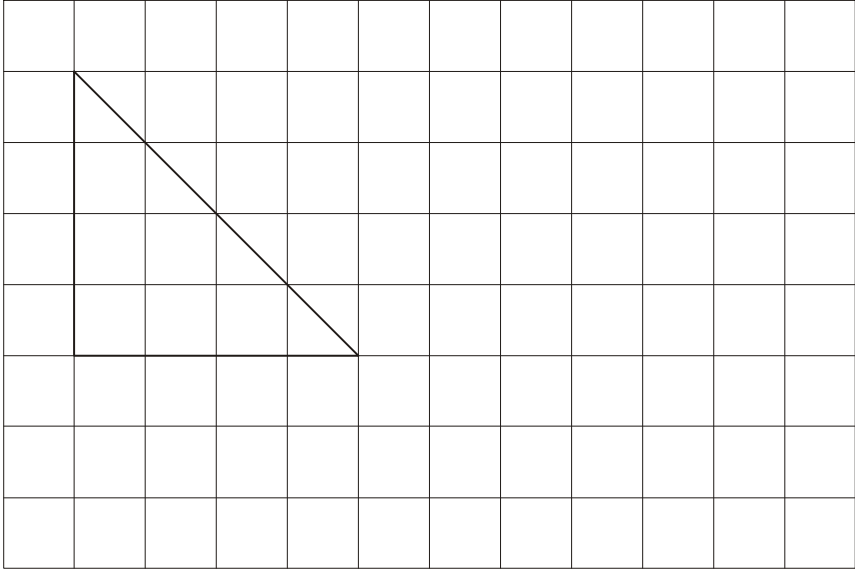
£

1 mark

15. Here is a triangle drawn on a square grid.

Draw a **rectangle** on the grid with the same area as the triangle.

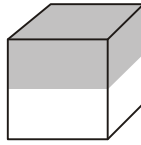
Use a ruler.



1 mark

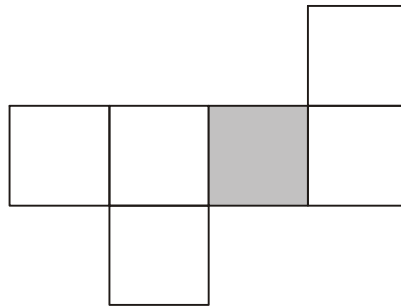
16. Here is a cube.

The cube is shaded all the way round so that the top half is grey and the bottom half is white.



Here is the net of the cube.

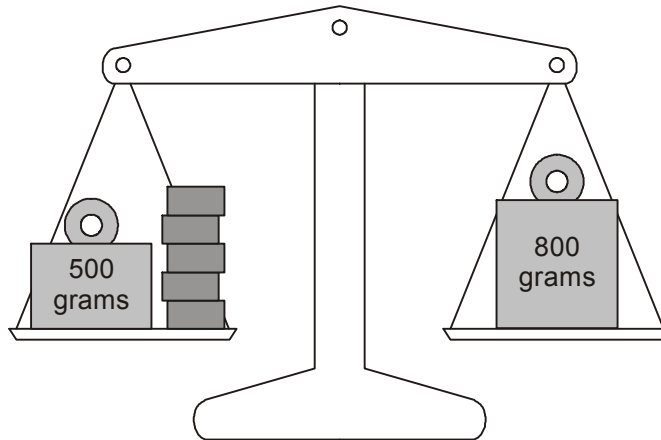
Complete the shading



2 marks

17. Lin has five blocks which are all the same.

She balances them on the scale with two weights.



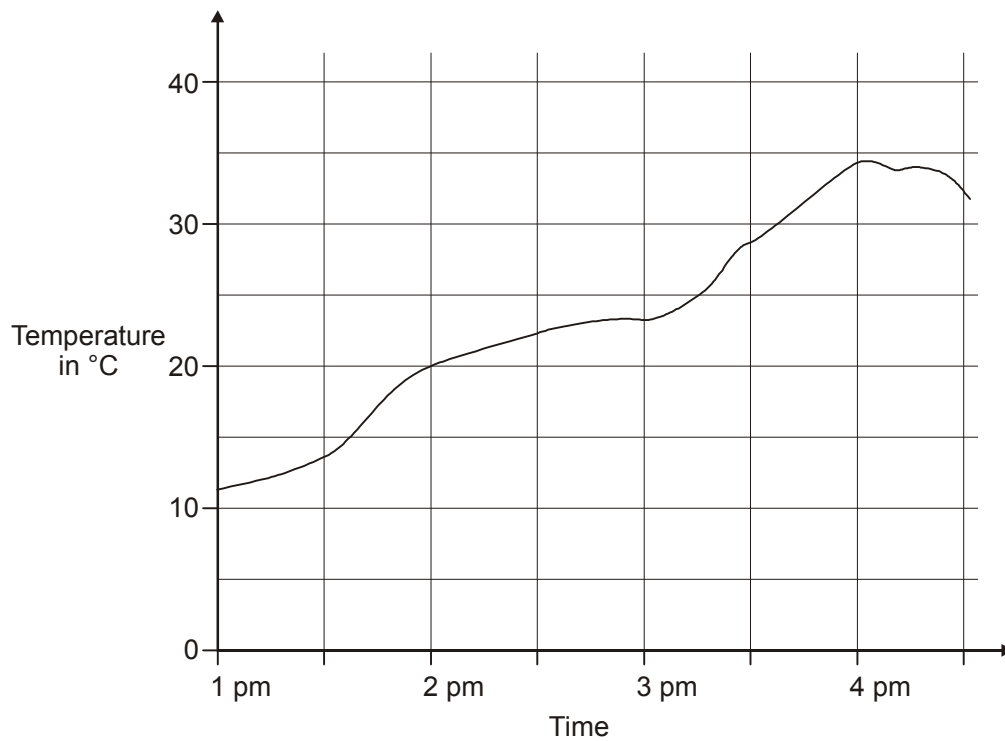
Calculate the weight of **one** block.

Show your **working**.
You may get a mark.



2 marks

18. This graph shows the temperature in a greenhouse.



Use the graph to find the time when the temperature was 25°C.



1 mark

Use the graph to find the difference between the temperature at 2 pm and the temperature at 4 pm.



degrees

1 mark

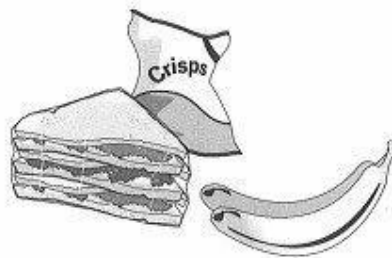
19. David and his friends prepare a picnic.

Each person at the picnic will get:

3 sandwiches

2 bananas

1 packet of crisps



The children pack **45** sandwiches.

How many **bananas** do they pack?

Show your **method**.
You may get a mark.

bananas

2 marks

20. Write the answer to each of these calculations rounded to the **nearest whole number**.

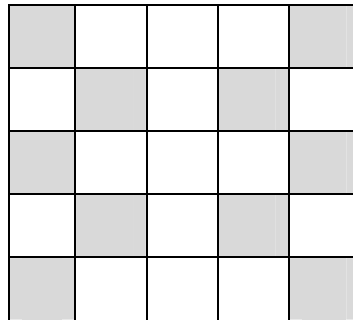
One has been done for you.



	To the nearest whole number
75.7×59	4466
$7734 \div 60$	
772.4×9.7	
$20.34 \times (7.9 - 5.4)$	

2 marks

21. Here is a pattern on a grid.

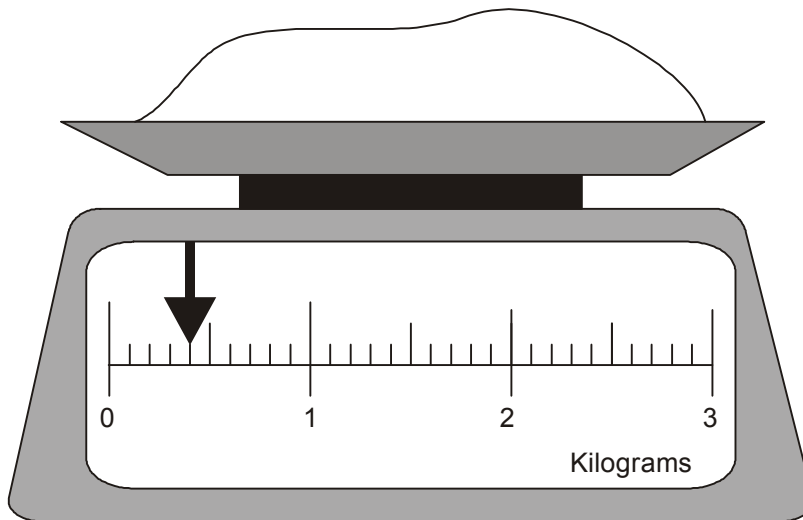


What **percentage** of the grid is shaded?




1 mark

22. Here is some flour on a weighing scale.




How many **grams** of flour are on the scale?

 **grams**

1 mark

How much more flour must be added to the scale to make 1.6 kg?



1 mark

23. Circle the **two** prime numbers.

 29 39 49 59 69

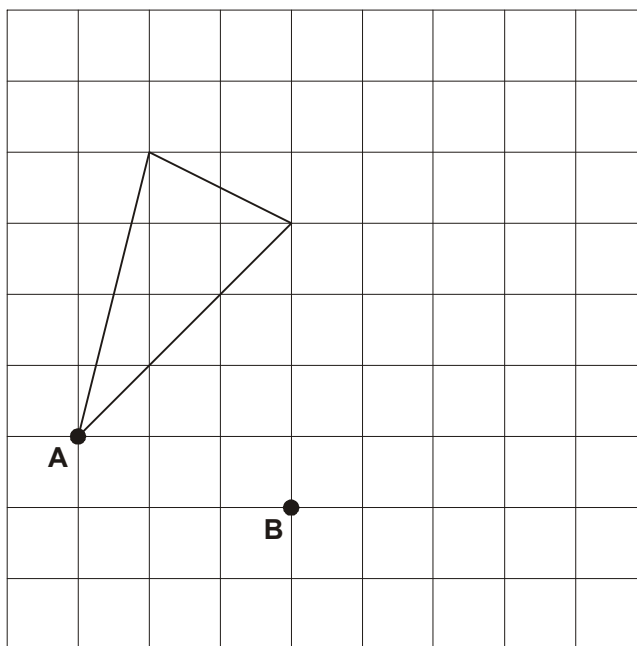
1 mark

24. Here is a triangle on a square grid.

The triangle is translated so that point **A** moves to point **B**.

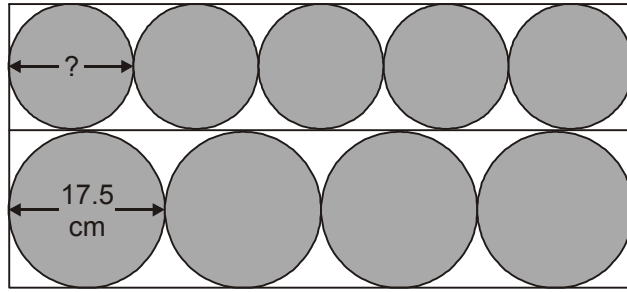
Draw the triangle in its new position.

Use a ruler.



1 mark

25. Four large circles and five small circles fit exactly inside this rectangle.



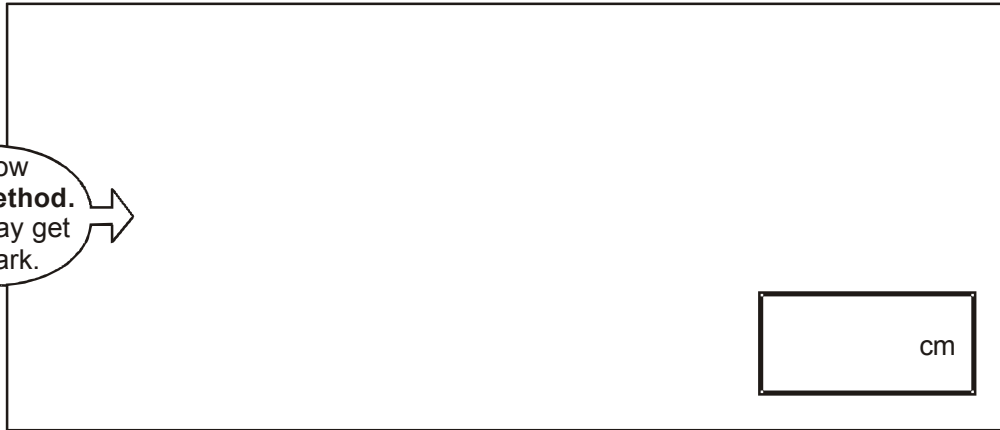
Not actual size

The **diameter** of a large circle is **17.5** centimetres.

Calculate the **diameter** of a small circle.



Show
your **method**.
You may get
a mark.



2 marks