

# Year 4 optional SAT

Paper B

2003


1. Here are some numbers.

246

367

458

Circle **two** of these numbers.  
Add them together.  
Write your answer.



1 mark

2. Here are two signs.



Use the signs to make these correct.



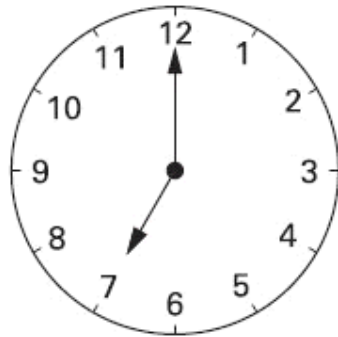
$$52 \quad \square \quad 17$$

$$19 \quad \square \quad 91$$

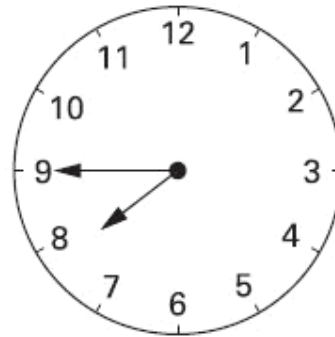
$$50 \quad \square \quad 34$$

1 mark

3. These clocks show the **start** and **finish** times of a TV programme.



**start**



**finish**

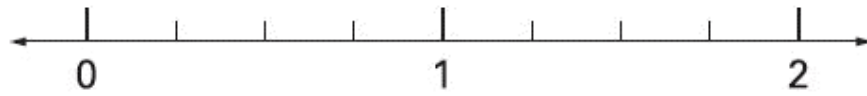
For how many minutes does the programme last?



**minutes**

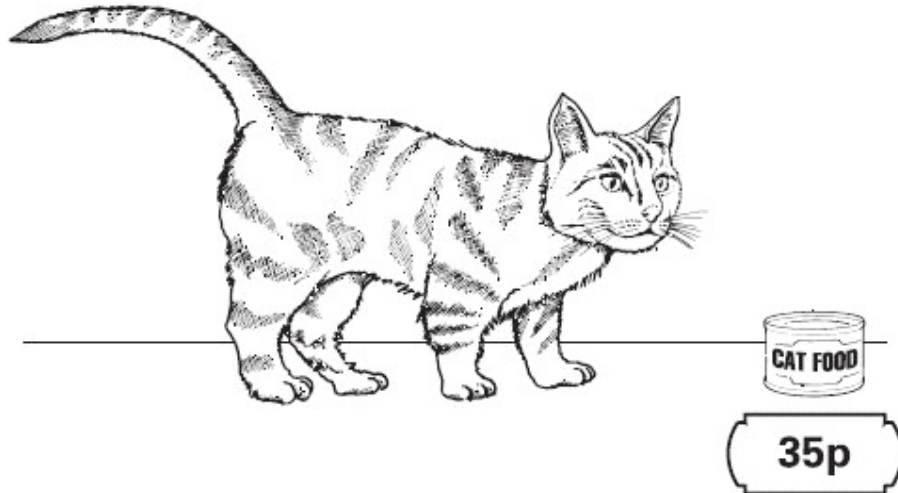
1 mark

4. Draw an arrow ( $\downarrow$ ) on the number line to show  $1\frac{3}{4}$



1 mark

5. Sarah's cat eats one tin of this cat food each day.



How much does it cost to feed Sarah's cat for 7 days?



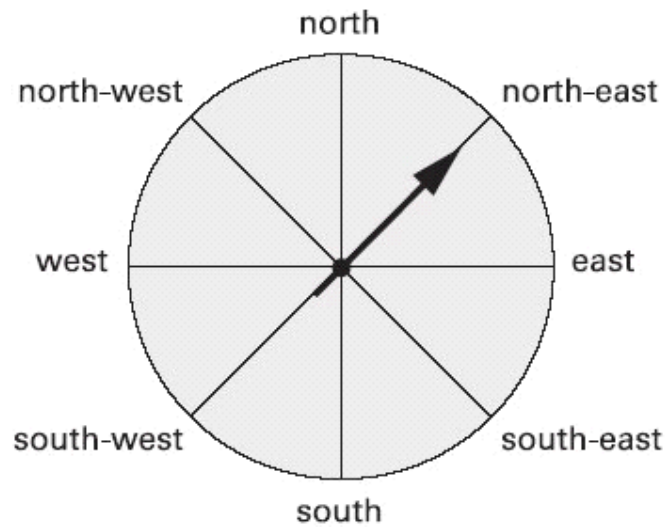


Show your **working**.  
You may get a mark,

£

2 marks

6. The arrow is pointing **north-east**.



The arrow is moved a **quarter turn clockwise**.

In which direction is the arrow pointing after it is moved?



1 mark

7. Circle the **two** fractions that are **greater than**  $\frac{1}{2}$



$$\frac{1}{8}$$

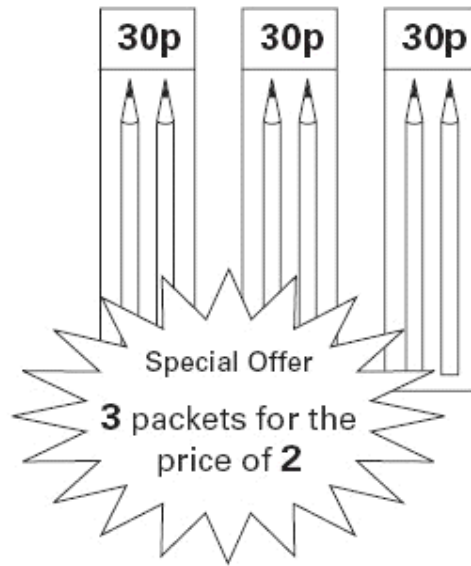
$$\frac{6}{10}$$

$$\frac{5}{8}$$

$$\frac{3}{10}$$

1 mark

8. A shop has these special offers.



Joe wants to buy 6 pencils.

Which is the cheaper offer?  
Tick (✓) one box.



Half price

3 for 2

Explain how you know.



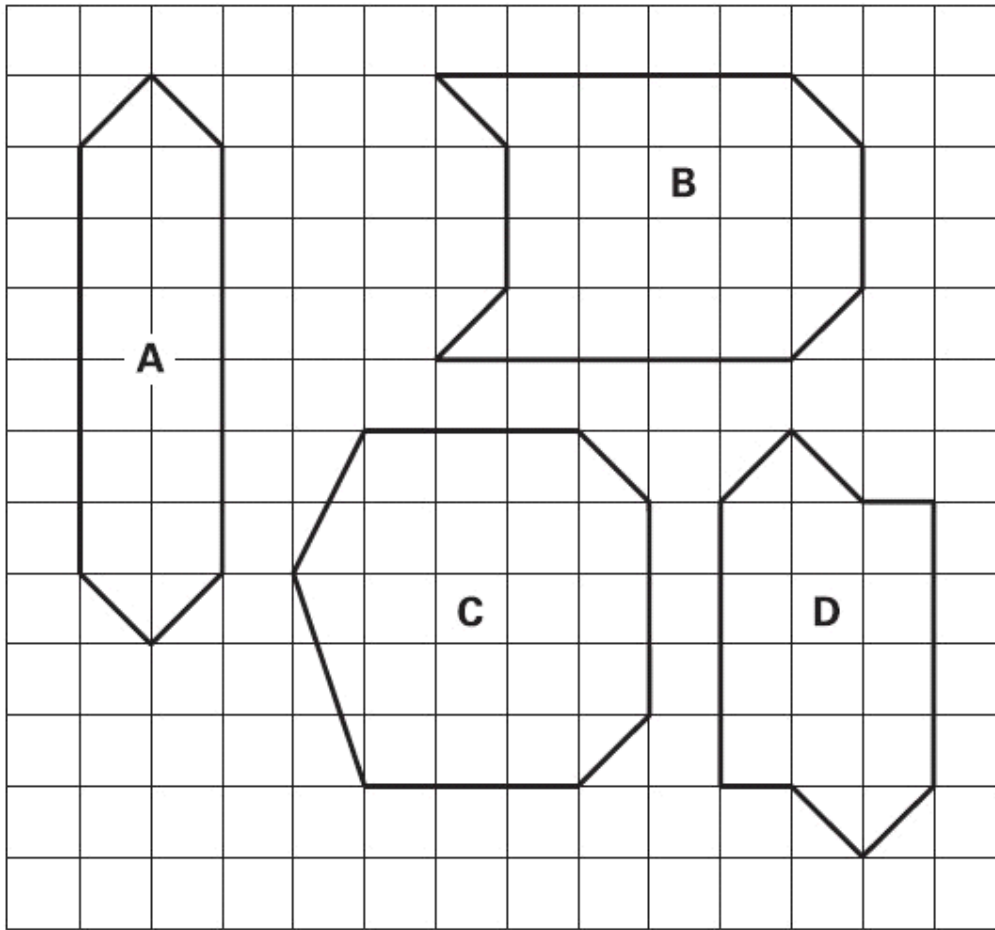
.....

.....

.....

1 mark

9. Here are four shapes on a square grid.



Complete the table.



	property of shape	
	is an octagon	has at least 1 right angle
shape A	<b>x</b>	✓
shape B	✓	<b>x</b>
shape C		
shape D		✓

1 mark

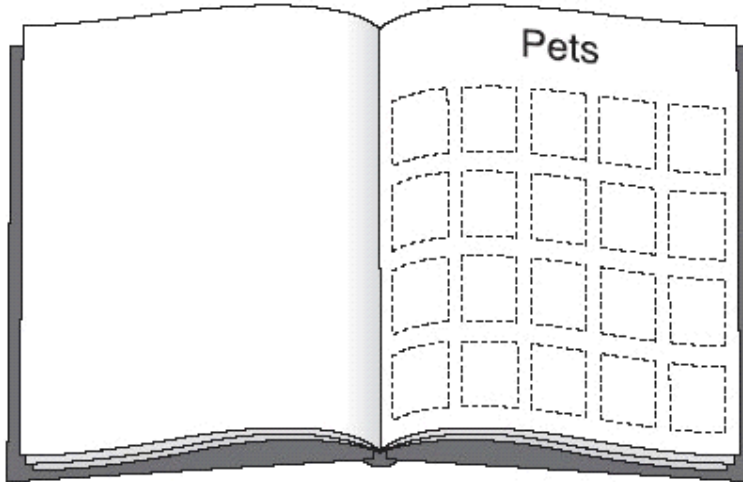
10. Write in the missing digits.



$$\begin{array}{|c|c|c|} \hline 1 & & 7 \\ \hline \end{array} + \begin{array}{|c|c|} \hline 6 & \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline 2 & 0 & 0 \\ \hline \end{array}$$

1 mark

11. Meg has 20 pet stickers to go on this page.



$\frac{1}{4}$  of them are dog stickers.

$\frac{1}{2}$  of them are cat stickers.

The rest are rabbit stickers.

How many rabbit stickers does she have?



**stickers**

1 mark

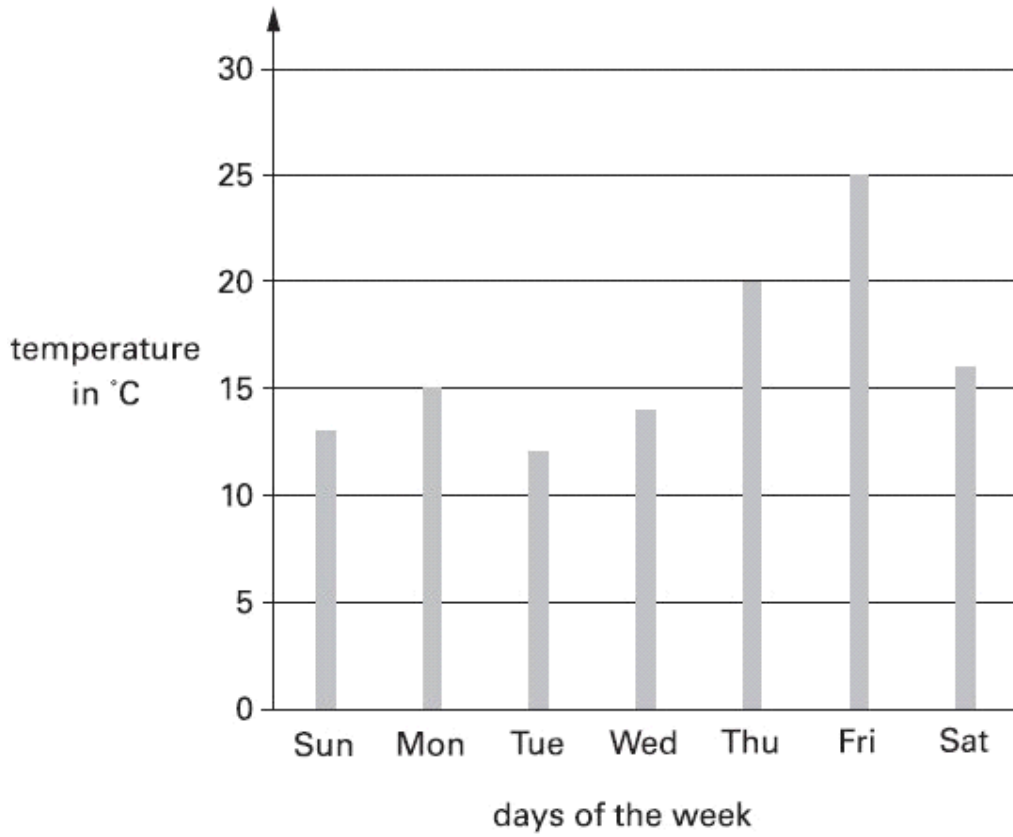
12. What is the remainder when you divide **53** by **8**?




**remainder**

1 mark

13. This graph shows the temperature at midday each day for a week.



**Estimate** how much higher the temperature was on Friday than on Saturday.

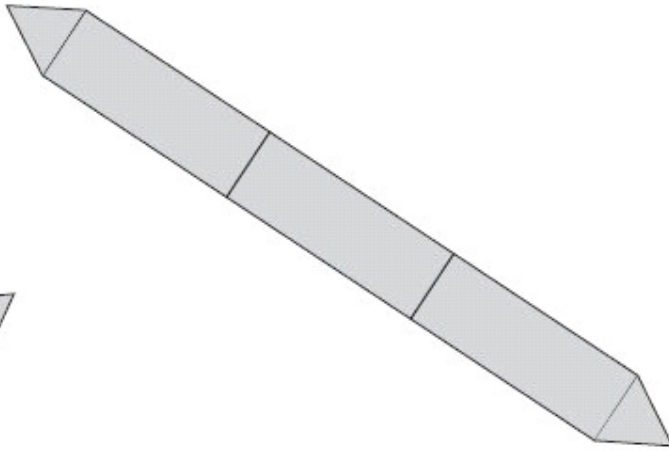
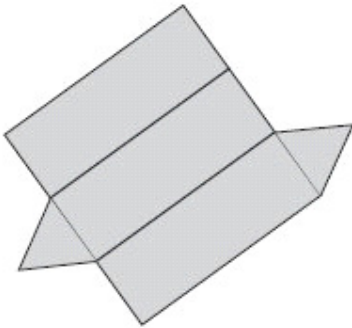
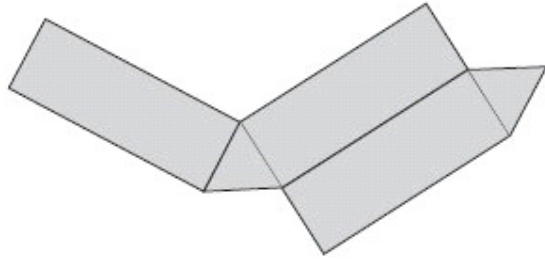
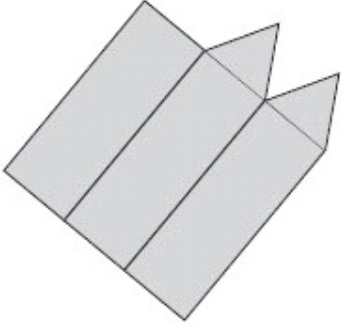
  °C

1 mark



14. **Two** of these diagrams are nets for a triangular prism.

Put a tick (✓) in them.



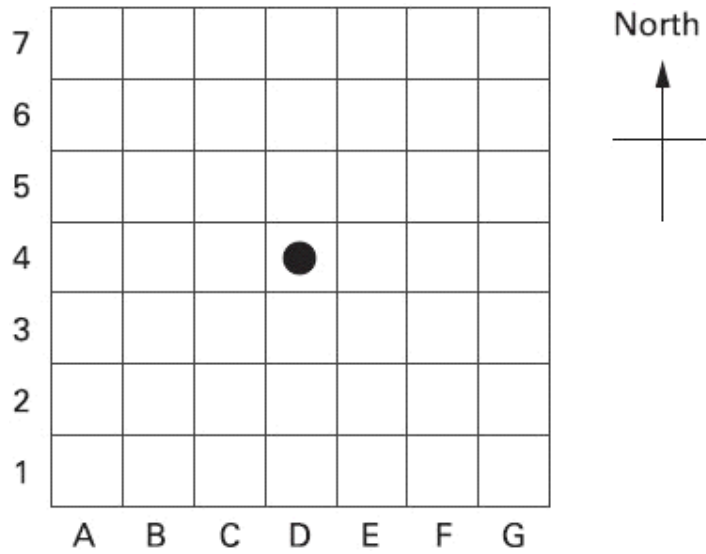
1 mark

15. Write in the missing number.

  $3400 \div \square = 100$


1 mark

16. Lisa places a counter on square **D4**




She moves it 2 squares east and 3 squares south.

Write the position of the square she moves it to.



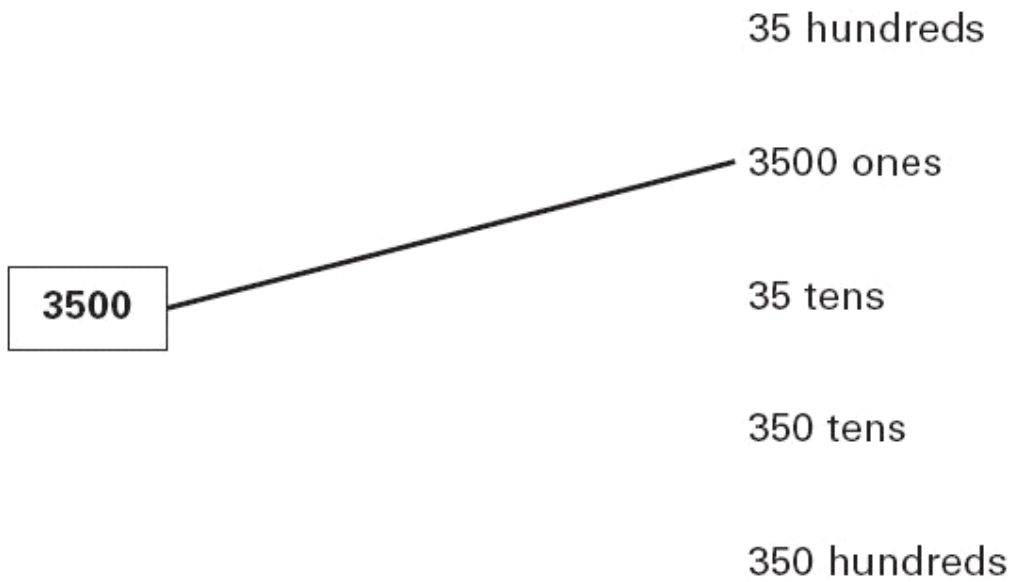

1 mark

17. Calculate **846 + 478**




1 mark

18. Draw **two more** lines to match **3500** to numbers with the same value.

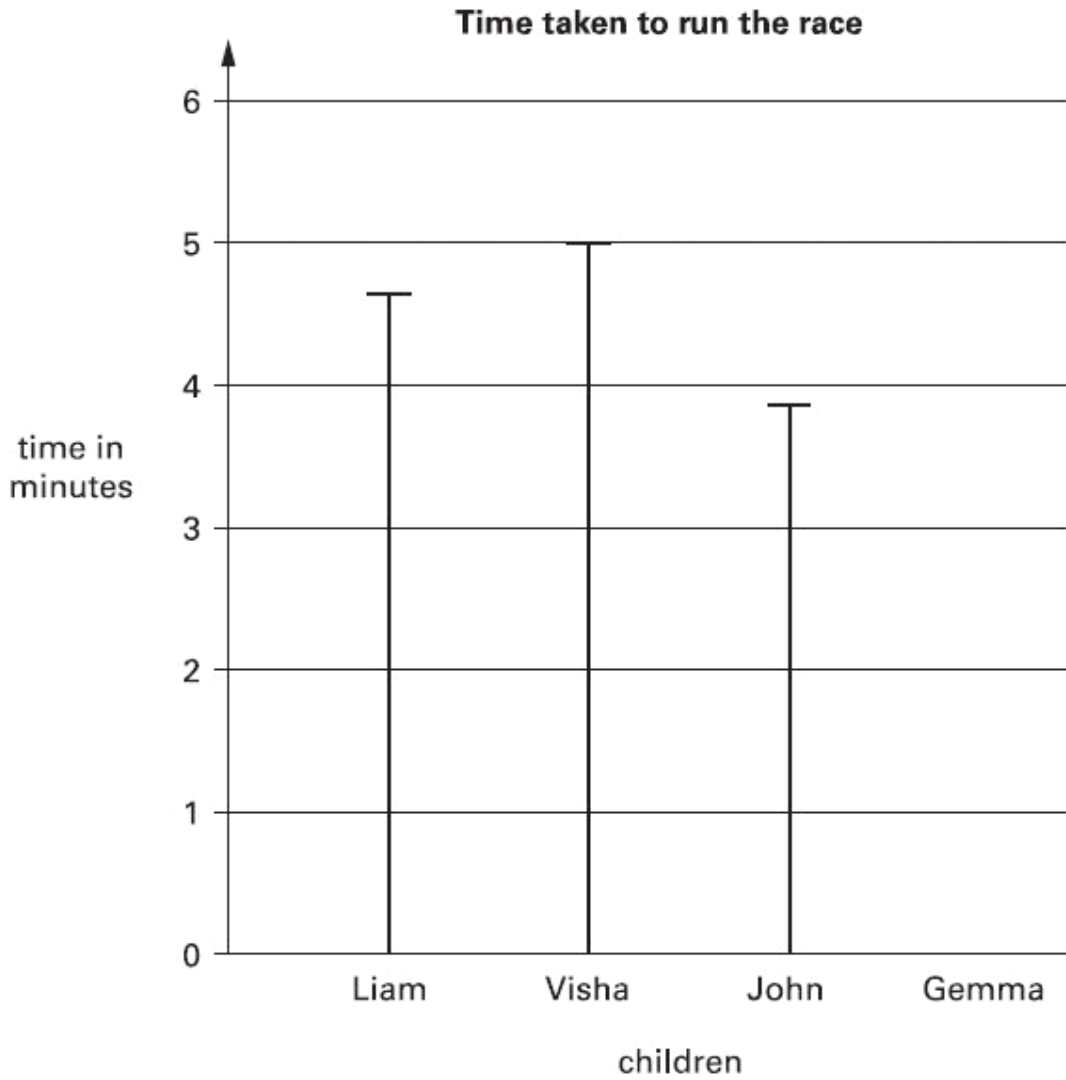


1 mark

19. Four children run in a race.

Gemma takes 5 minutes 20 seconds.

Complete the graph for Gemma.



1 mark

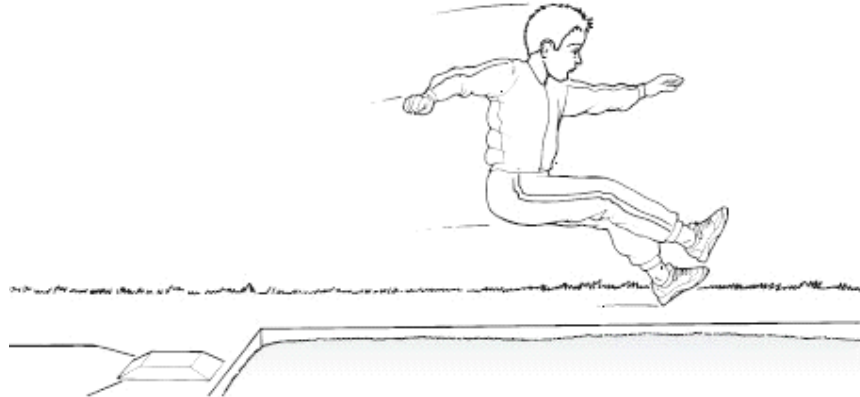
20. Calculate  $453 \times 8$





1 mark

21. Max jumped **2.25 metres** on his **second** try at the long jump.

This was **75 centimetres** longer than on his **first** try.

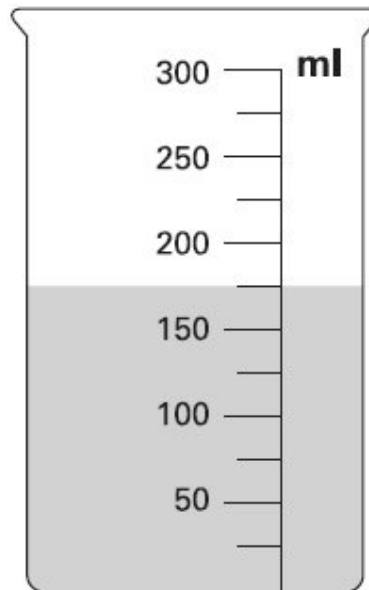


How far **in metres** did he jump on his **first** try?

  m

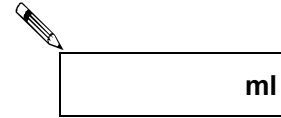
1 mark

22. David puts this amount of water in a container.



Then he pours **50 millilitres** of the water out.

How much water is left in the container?

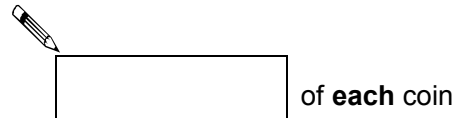


1 mark

**23.** Parveen has the **same number** of 20p and 50p coins.

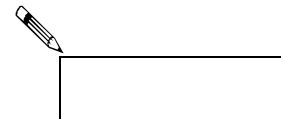
She has £7.00

How many of **each** coin has she?



1 mark

**24.** Calculate **8.52 - 7.78**



1 mark

25. Match each box to the number which has the same value.

One has been done for you.

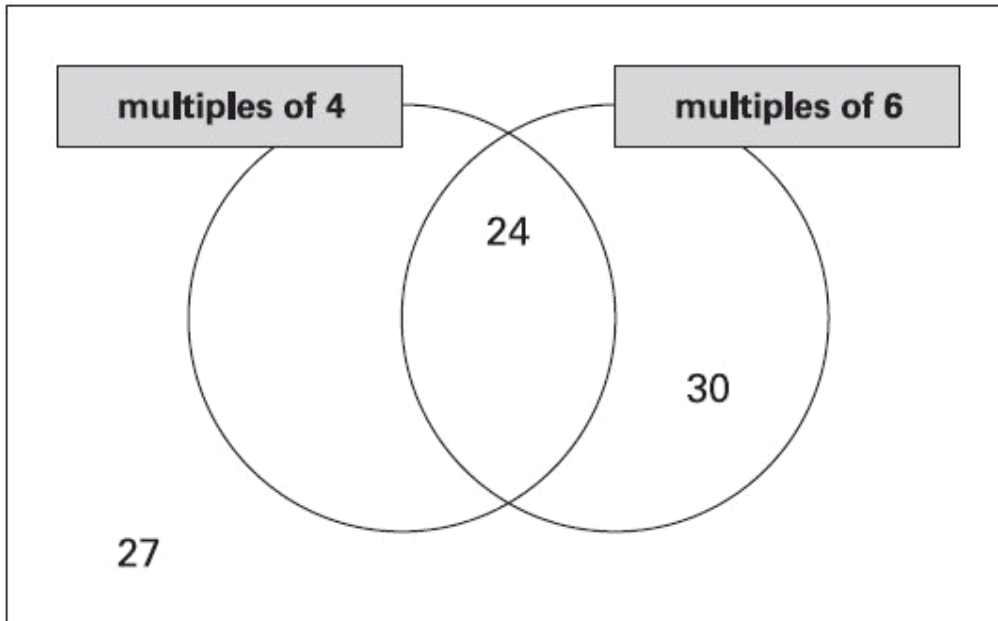


$\frac{3}{4}$		0.5
$\frac{1}{2}$		0.8
$\frac{4}{5}$		0.3
		0.75
		0.4

1 mark

26. Write these numbers in the correct places on this sorting diagram.

16      26      36



2 marks

27. 4 pineapples cost £3.40



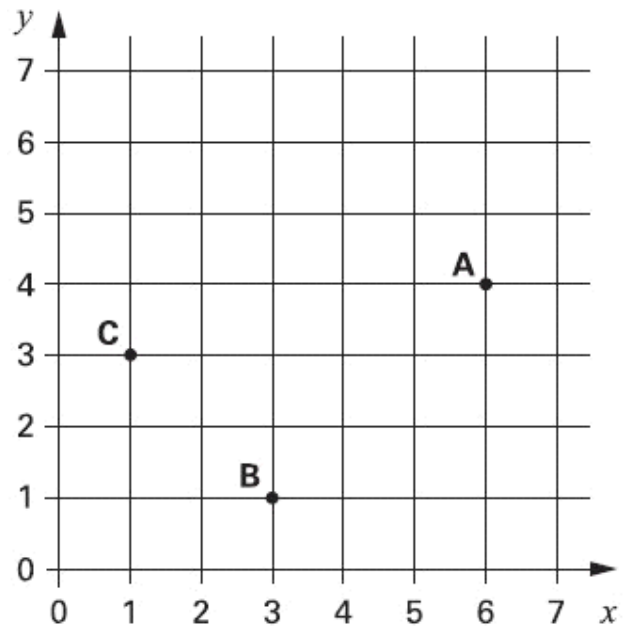
Calculate the cost of 1 pineapple.




1 mark



28.

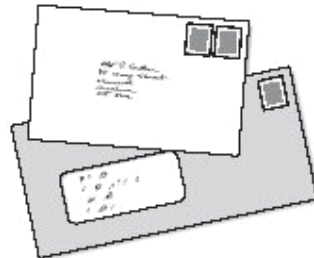


A, B and C are three corners of a rectangle.

What are the coordinates of the fourth corner?

( , )

1 mark

29. Two letters have a total weight of **120 grams**

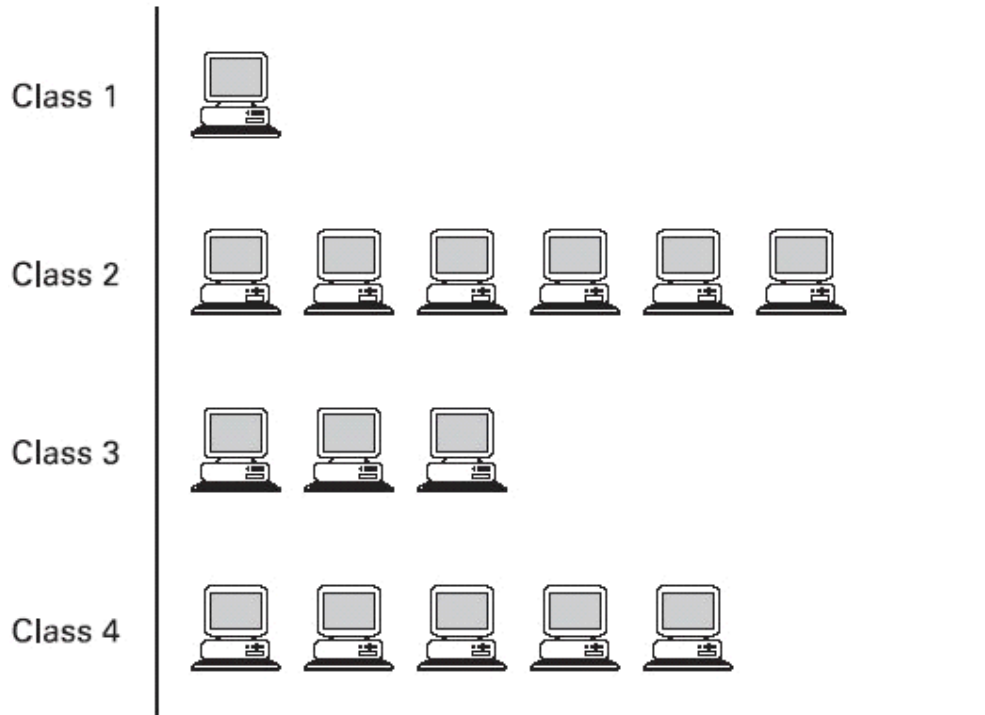
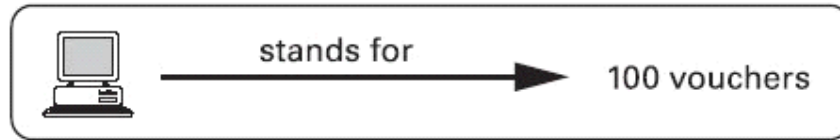
One letter weighs **twice as much** as the other.

Write the weight of the **heavier** letter.

g


1 mark

30. The children at Brook School collect computer vouchers.



Altogether, they need 10000 vouchers to get a computer.

How many **more** vouchers do they need?



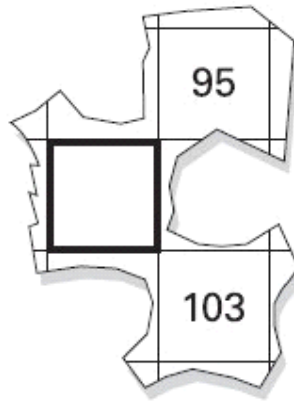
1 mark

31. Here is part of a number grid.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

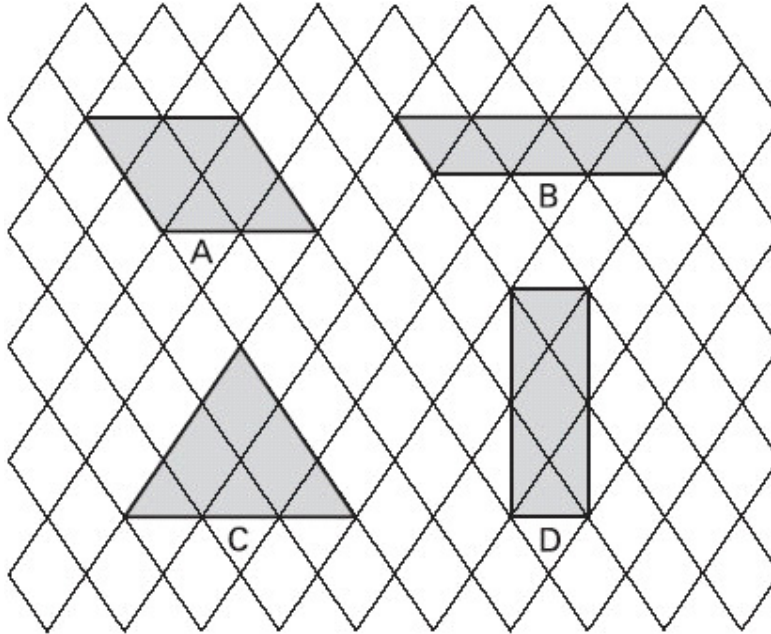
Here is another part of the **same** grid.

Write in the missing number.




1 mark



32. Here are some shapes drawn on a grid.



Write the letters of the **two** shapes that are equal in area.


 ..... and .....


1 mark

33.  and  each stand for a different number.

$$\square = 34$$

$$\square + \square = \bigcirc + \bigcirc + \square$$

What is the value of  ?



1 mark