

# Year 4 Maths Optional SAT

Paper A

**2003**  
35 min  
35 marks

**1. Practice question**

Here are some numbers.

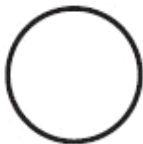
60      20      30

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

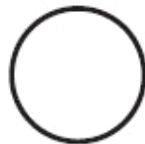
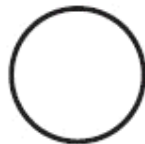
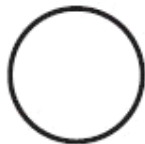


**2.**      209      565      450      405      124

Write these numbers in order in the circles.



largest



smallest

1 mark

3. Look at each number sentence.

Put a tick (✓) if it is correct.

Put a cross (✗) if it is **not** correct.



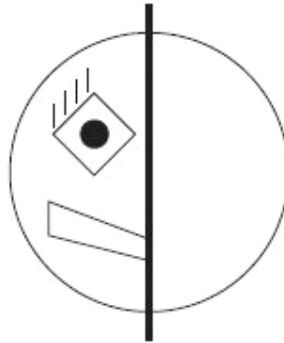
$$8 \times 2 = 8 + 8$$

$$3 \times 10 = 3 + 3 + 3$$

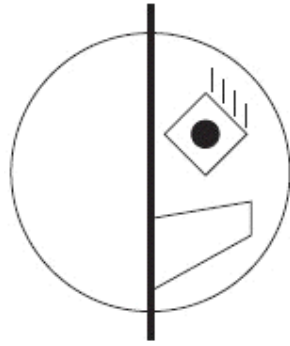
$$5 \times 4 = 5 + 5 + 5 + 5$$

1 mark

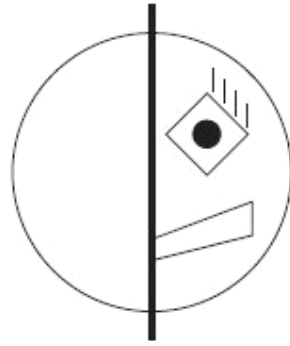
4. Here is half of a symmetrical picture.



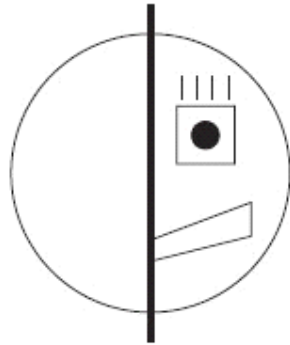
Which of these is the reflection of the picture?  
Write its letter.



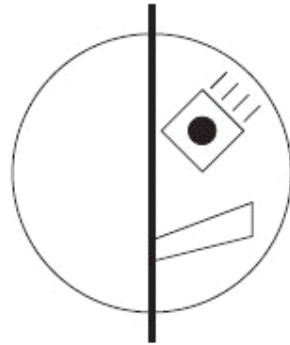
A



B



C

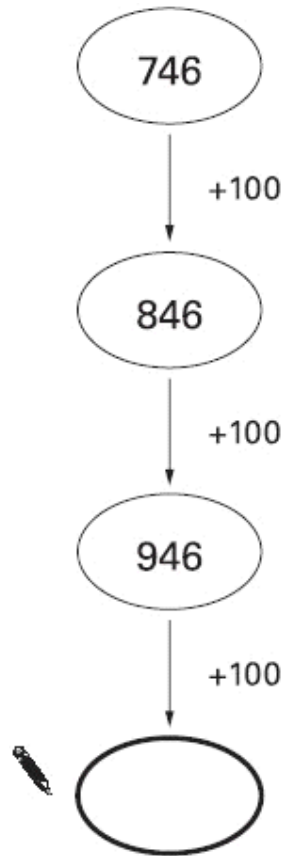


D



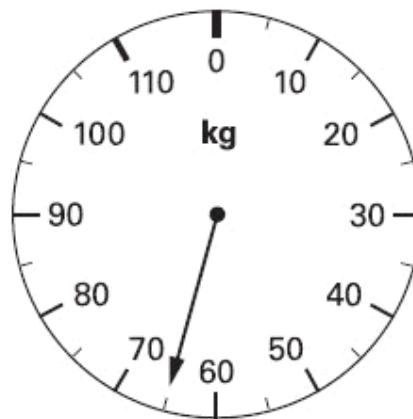
1 mark

5. Write in the missing number.




1 mark

6. This scale shows how much Mrs Patel weighs.




How much does Mrs Patel weigh?

  kg

1 mark

7. Calculate  $127 + 57$




1 mark

8. Write each letter in the correct place on the diagram.

One has been done for you.

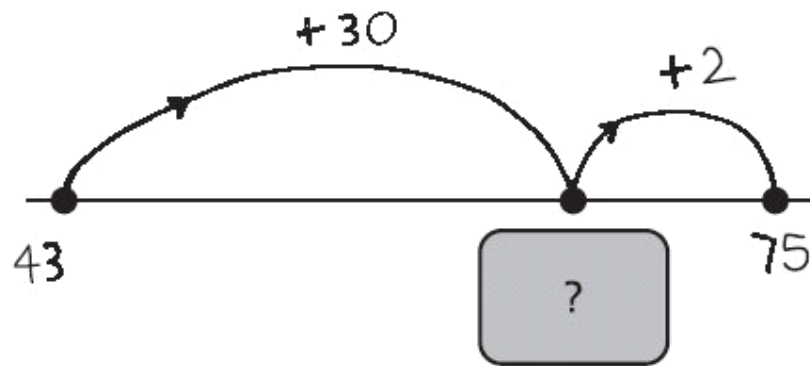
T N P S



	curved lines	no curved lines
straight lines		
no straight lines	S	

2 marks

9. Molly drew a number line to find the answer to  $43 + 32$



What number is hidden under the card?

1 mark

10. Chen has **£9.10**

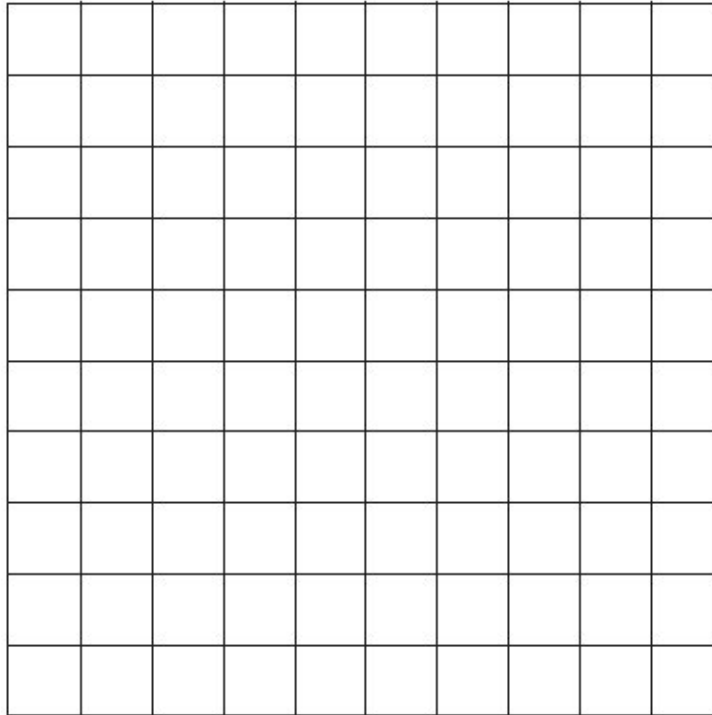
He wants to buy a game which costs **£11.50**

How much **more** does he need to save?

1 mark

11. Here is a centimetre grid.

Draw a **rectangle** whose **longer sides** are **6cm**



1 mark

12. Ryan collects 2 comics each month for a whole year.

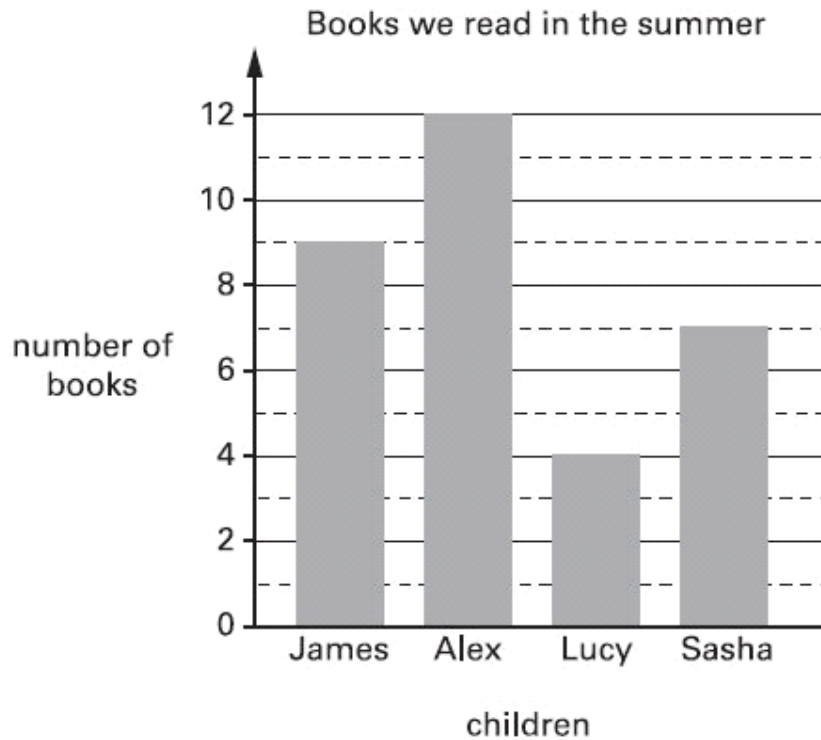


How many comics does he collect in a year?




1 mark


13. This graph shows the number of books some children read.



How many more books did James read than Lucy?



Which two children read **between 5 and 10** books?


 ..... and .....

2 marks

14. Here is a multiplication.

$$6 \times 10 = 60$$

Write a **division** which uses these **same 3 numbers**.



1 mark




15. Zinzi has a rod **15** cubes long.



She breaks it into two pieces.

One piece is **1** cube longer than the other.

How many cubes are in **each** piece?

  **cubes** and  **cubes**

1 mark

16. **Two** of these sentences could be true.

Tick (✓) the **two** sentences that could be true.



Adam's pencil is **12 centimetres** long.

Leah is **12 metres** tall.

Jake's glass holds **12 litres** of milk.

Kate's younger sister weighs **12 kilograms**.

1 mark

17. Draw **another** line **3cm longer** than this line.

Use a ruler.



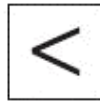
1 mark

18. Calculate **123 - 89**




1 mark

19. Here are two signs.



Use the signs to make these correct.



52  17

19  91

50  34

1 mark

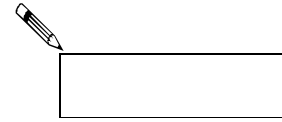
20. Here are some numbers.

246

367

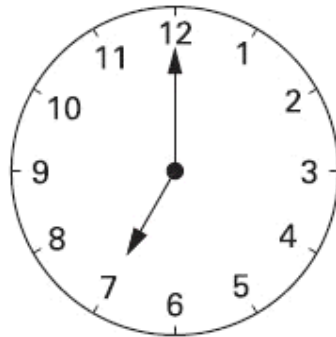
458

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

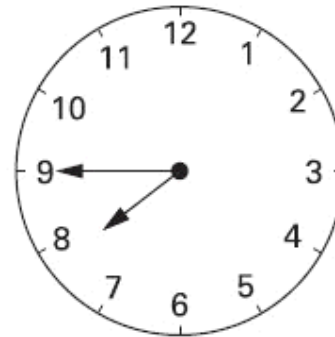


1 mark

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

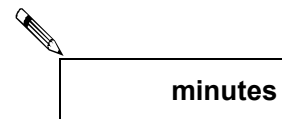


**start**



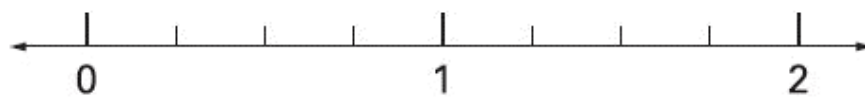
**finish**

For how many minutes does the programme last?



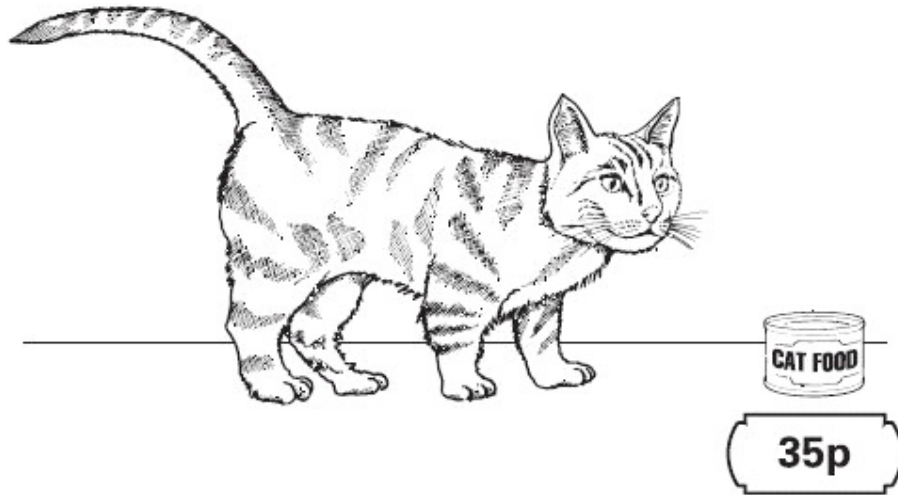
1 mark

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



1 mark

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



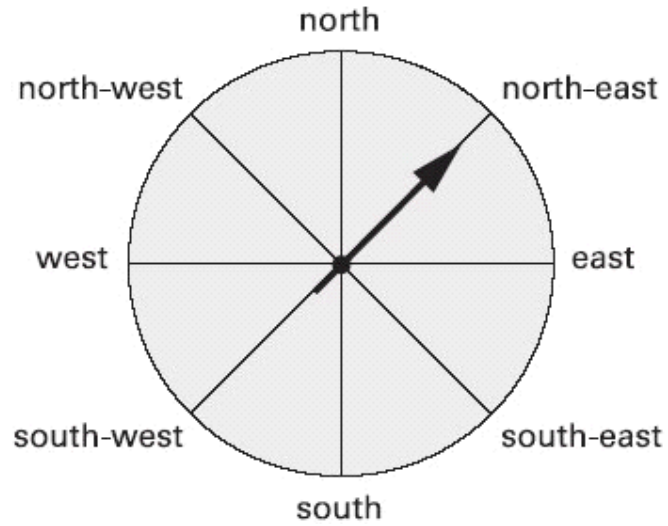
How much does it cost to feed Sarah's cat for 7 days?

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

£

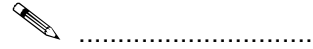
2 marks

24. 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

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



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

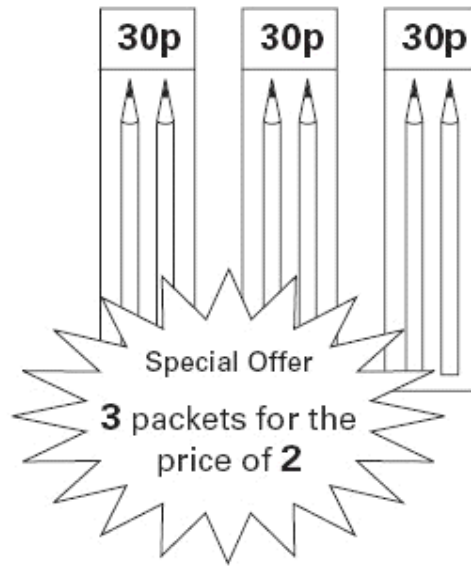
$$\frac{6}{10}$$

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

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

1 mark

26. 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.



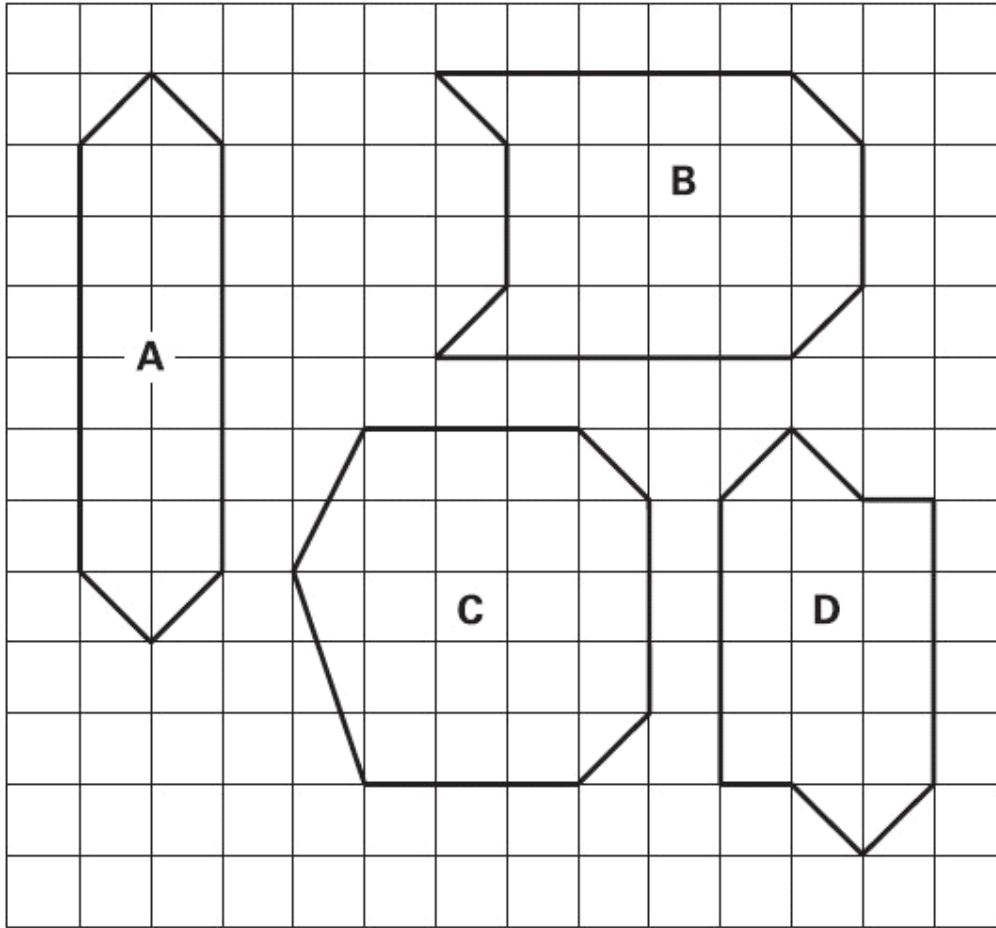
.....

.....

.....

1 mark

27. 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

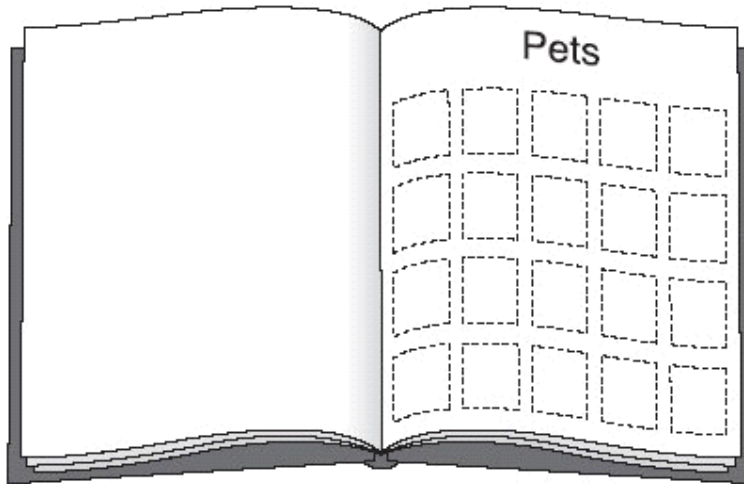
28. Write in the missing digits.



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

1 mark

29. 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

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

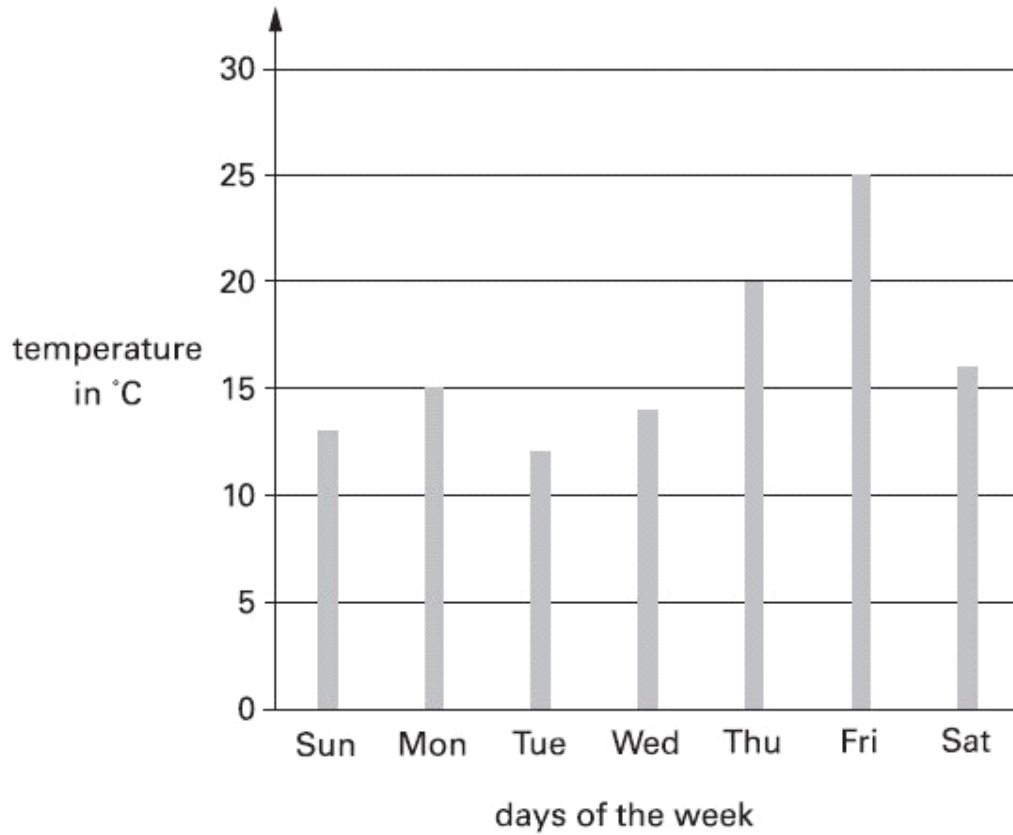


remainder


1 mark



31. 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

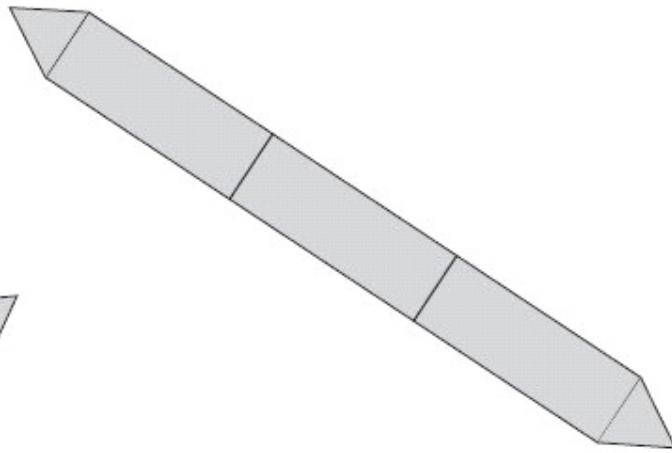
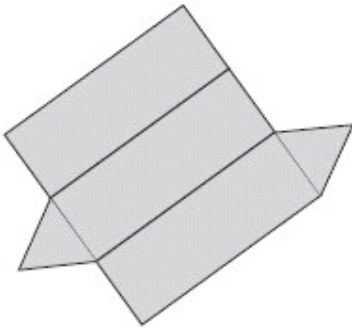
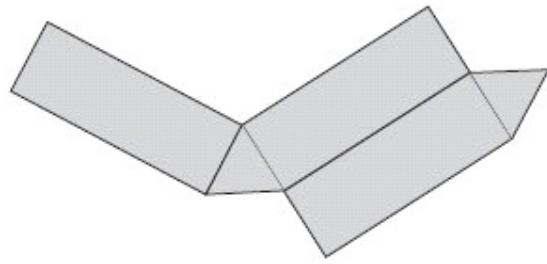
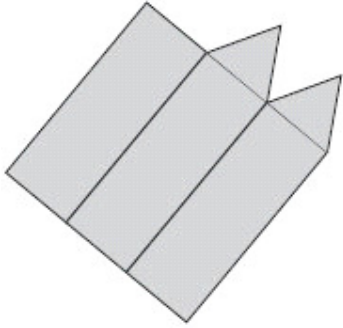
32. Write in the missing number.

  × 4 = 96

1 mark

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

Put a tick (✓) in them.



1 mark