Year 3 Maths Optional SAT
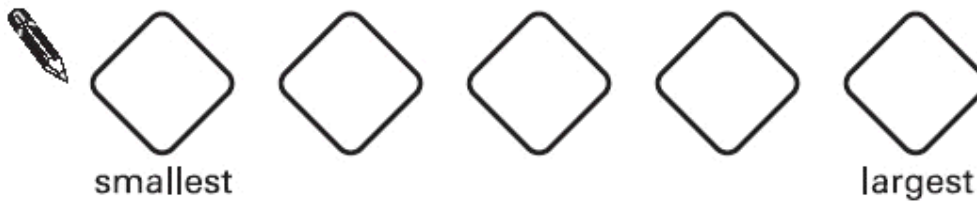
Paper B

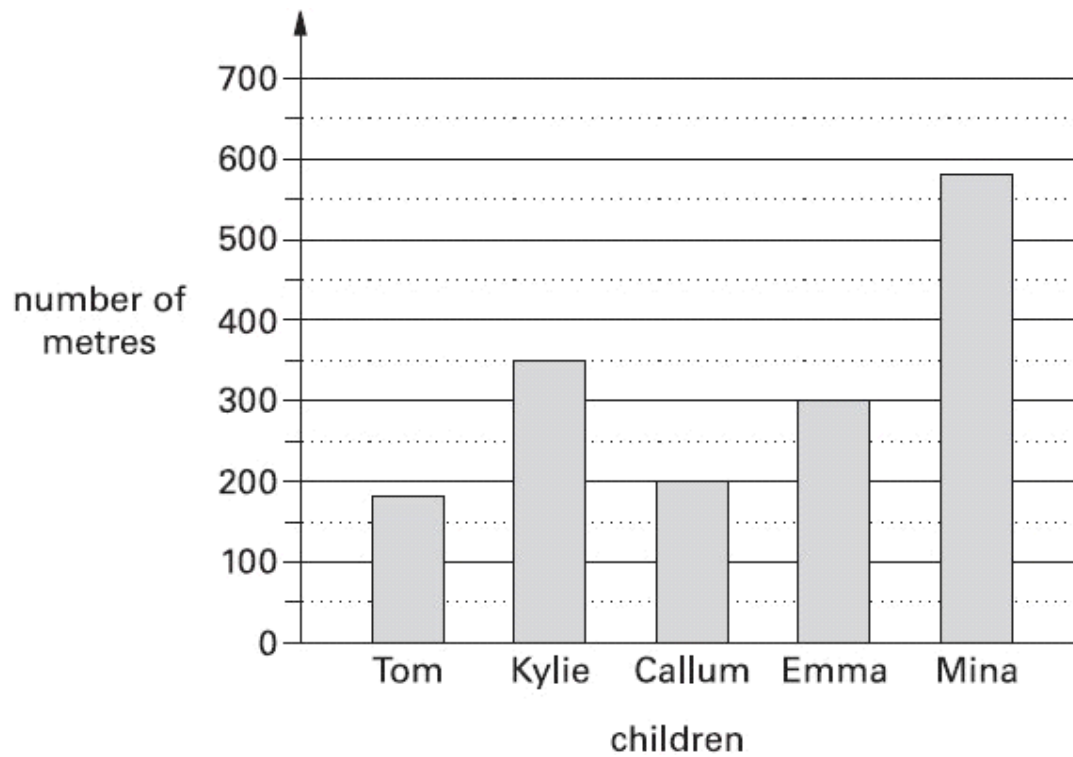**1.** Calculate 13×3

1 mark

2. Write these numbers in order.

164   146   106   160   140

smallest   largest

1 mark

3. This graph shows the distance some children walk to school.
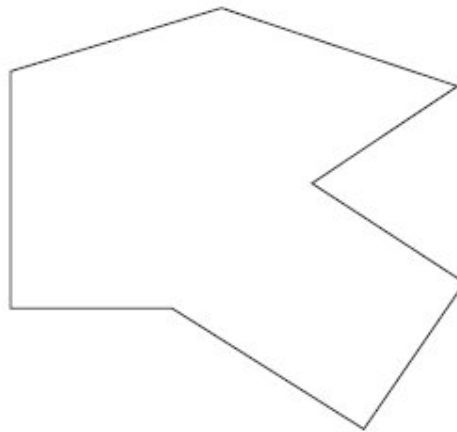

Who walks **between** 300 and 400 metres to school?

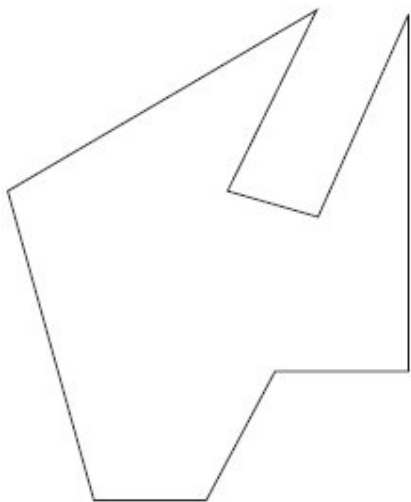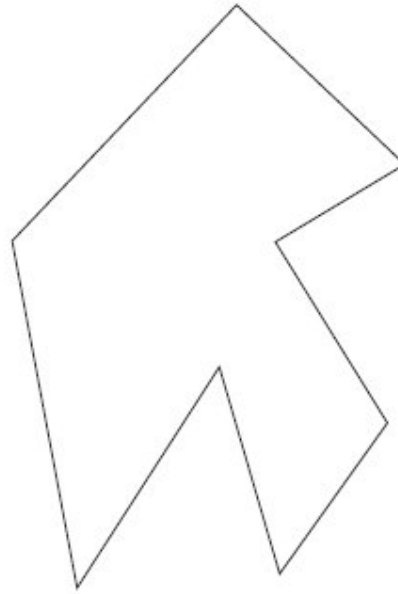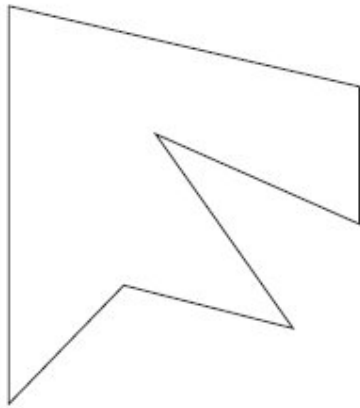✎ ....

1 mark

4. Here are some shapes.

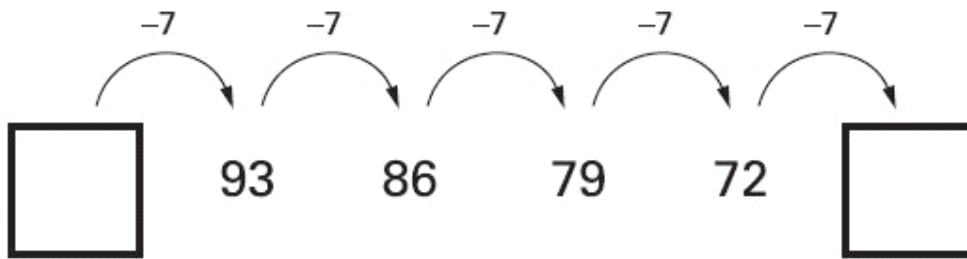**Two** of the shapes are **octagons**.

Put a tick (✓) on them.

1 mark

5.   Write the two missing numbers in this sequence.

| -7 | -7 | -7 | -7 | -7 |

[   ]   93   86   79   72   [   ]

6.   Mina has 76 marbles in a jar.

The jar is about **half full**.

Estimate how many marbles Mina will have when the jar is **full**.

Circle the best estimate.

75   100   125   150   175

1 mark

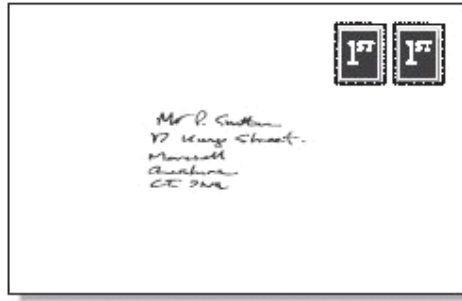**7.**   Measure this line.

Use a ruler.

_____

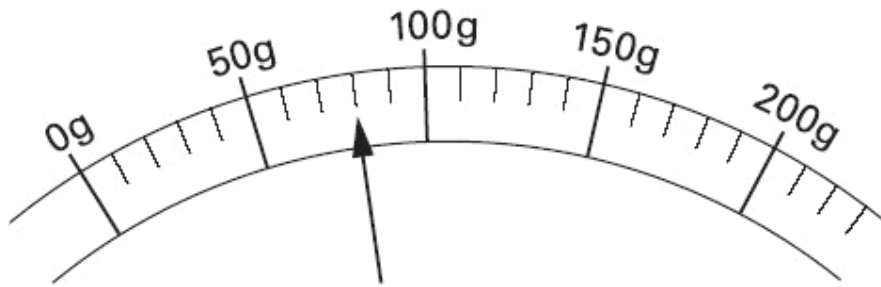[   ] **cm**

1 mark

8.   Complete the table.

shape	number of **right** angles
	✏ ....
	✏ ....

1 mark

9.

Here is a scale which shows the weight of a letter.

How much does the letter weigh?

| grams |

1 mark

10. The letter D has a line of symmetry.

Tick (✓) **all** the other letters that have a line of symmetry.

D   M   E   S   N

✓   ☐   ☐   ☐   ☐

1 mark

11. Katie has these digit cards.

She makes different **2-digit** numbers with them.

5   7   2

Write all the **2-digit** numbers Katie can make with them.
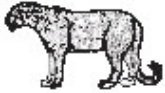
12. **60 children** visit the zoo.

They each vote for their favourite big cat.

favourite big cat		number of children
cheetah		7
lion		22
tiger		13
panther		
leopard		10
total		**60**

Complete the table.

Now look at each sentence below.

Put a tick (✓) if it is **true**.
Put a cross (✗) if it is **not true**.

Nine more children voted for the lion than for the leopard.

The lion was more popular than the tiger.

$\frac{1}{4}$ of the children voted for the tiger.

2 marks

13. Ben saved **twenty-four** 10p coins and **ten** 20p coins.
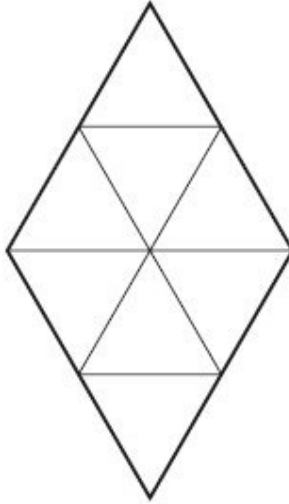
How much money has Ben saved?

Show how you work it out.

£

2 marks

14. Shade $\frac{1}{4}$ of this shape.

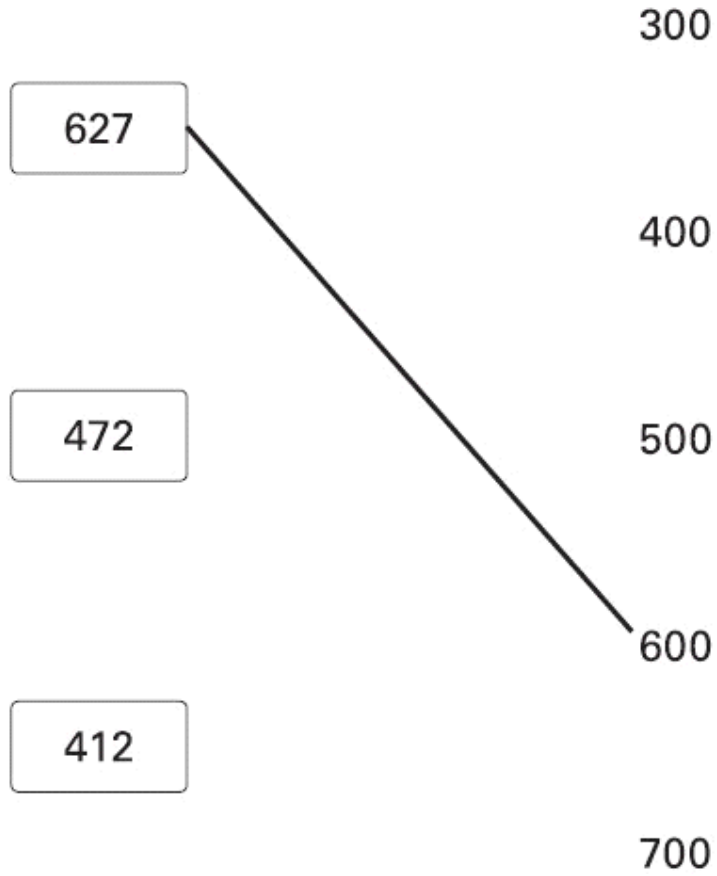**15.** Write in the missing number.

120 + [   ] + 70 = 500

16. Circle the **two** fractions that have the same value.

$\frac{2}{10}$ $\frac{1}{3}$ $\frac{1}{2}$

$\frac{5}{10}$ $\frac{1}{4}$

17. Round each number in a box to the nearest 100

One is done for you.

300

627

400

472

500

600

412

700

1 mark

18. Write in the missing digits.
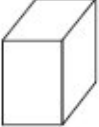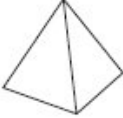
| | 7 | − | 5 | | = | 43 |

1 mark

19. Complete the table.

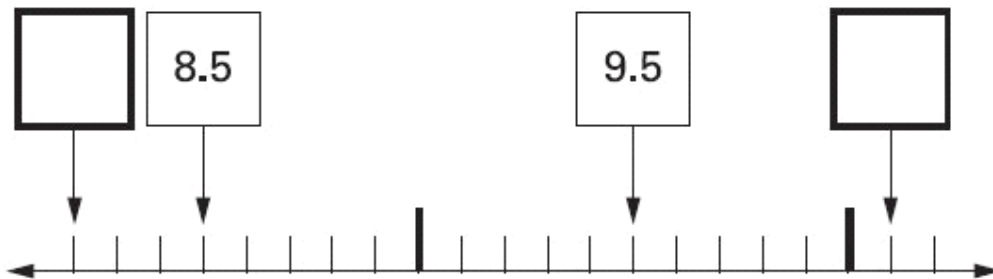|	number of faces	number of edges
cuboid	6	12
square-based pyramid	5	

1 mark

20. Calculate **448 + 375**

1 mark

21. Here is part of a number line.

Write in the numbers missing from the **two** empty boxes.

| | 8.5 | | 9.5 | | |

2 marks

22.
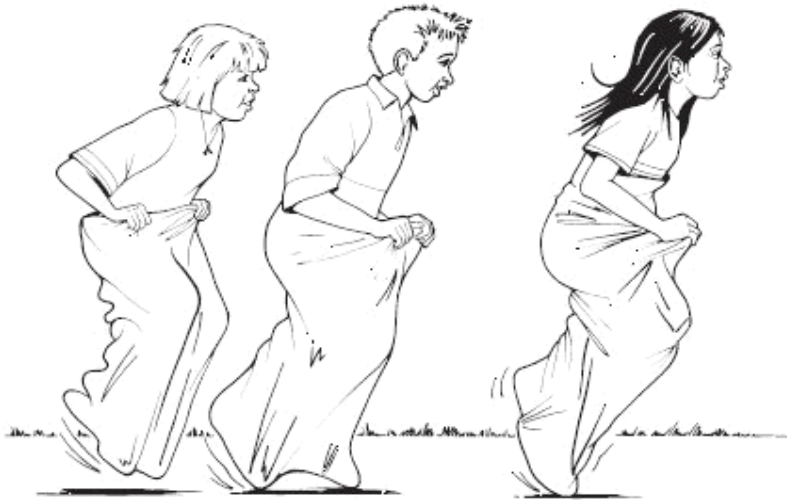
The Fun Day started at this time in the morning.

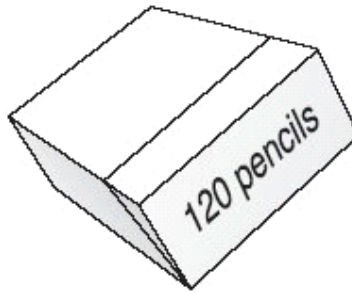It finished at this time in the afternoon.

How long did the Fun Day last?

hours	minutes

1 mark

23. Write in the missing number.

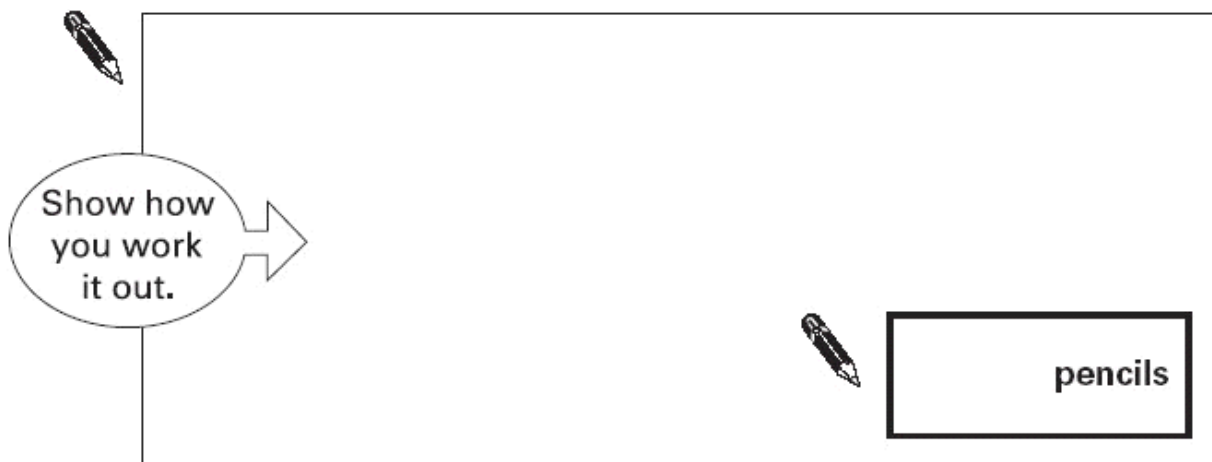$$\boxed{} \div \quad 4 \quad = \quad 23$$

1 mark

24. Miss Wood's class had 120 pencils at the start of the year.

120 pencils

12 children use 5 pencils each.

11 children use 4 pencils each.

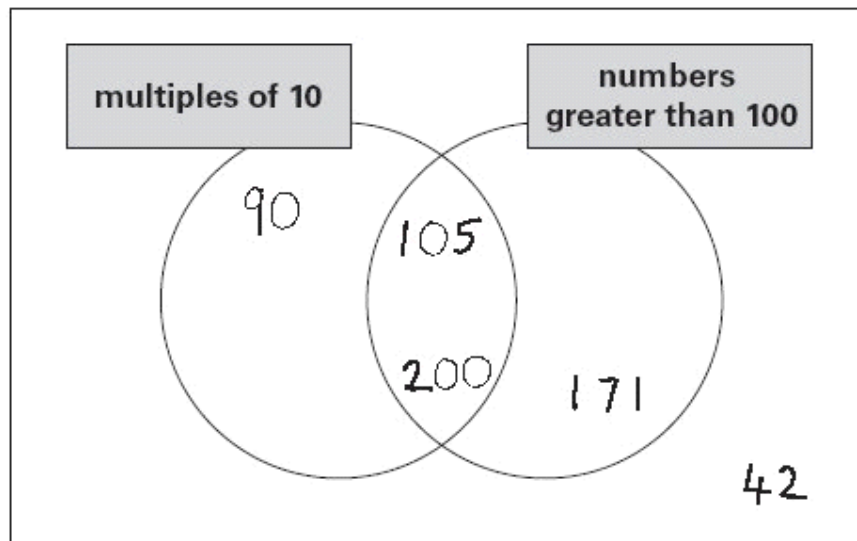How many pencils are left at the end of the year?

Show how you work it out.

pencils

2 marks

25. Draw the reflection of this shape.

mirror line
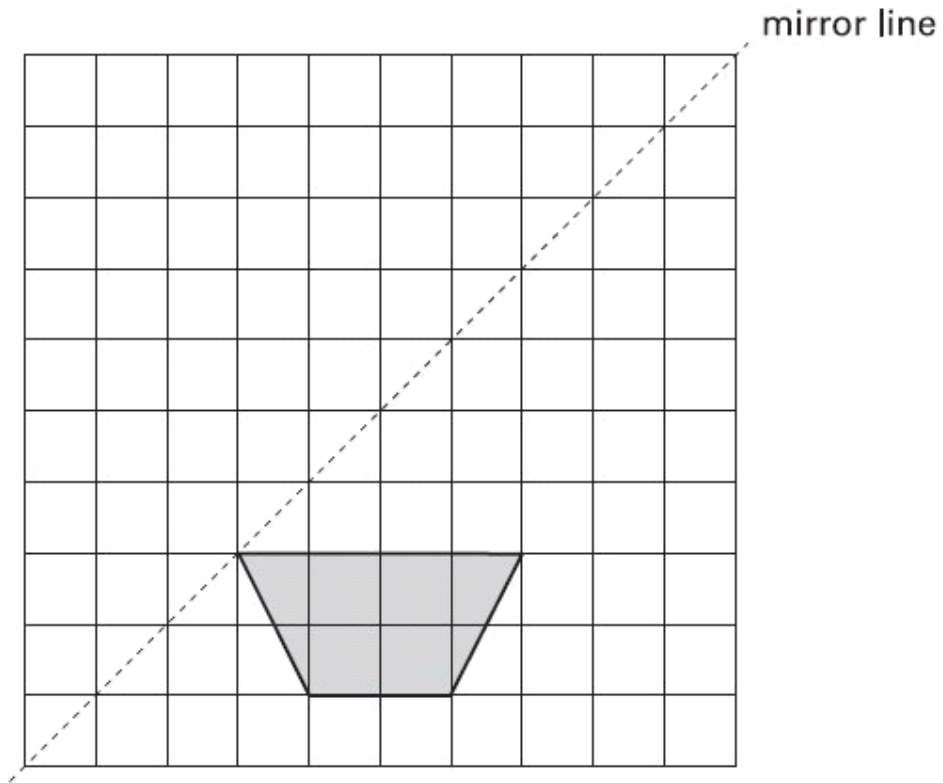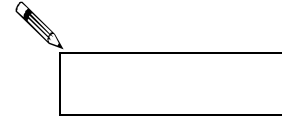
1 mark

26. **One** number is in the **wrong** place on the sorting diagram.

Put a cross (✖) on it.

multiples of 10

numbers greater than 100
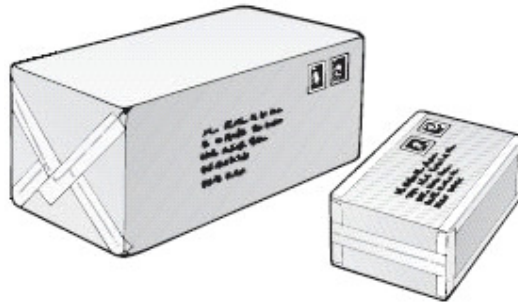
90

105

200

171

42
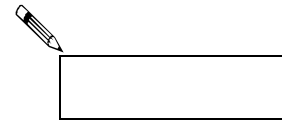
1 mark

27. Calculate **237 − 189**

1 mark

28. It costs Ben **£4.16** to post **two** parcels.

One parcel costs **£3.32** to post.

How much does the **other** parcel cost to post?

1 mark

29. Katie's glass holds a **quarter of a litre** when it is full.

She nearly fills it to the top with juice.

Tick (✓) the approximate amount of juice she puts in the glass.

4 millilitres ☐

20 millilitres ☐

120 millilitres ☐

220 millilitres ☐

420 millilitres ☐

1 mark