Key stage 1

Mathematics

SET 5 - Paper 2: reasoning

Full Name	
School	
Date	

Total Marks	

PiAcademy
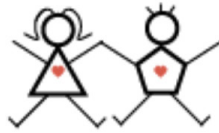
Instructions:

1. You **must not** use a calculator to answer any questions in this test.

2. It is expected that the test will take approximately 35 minutes to complete, but it is not strictly timed.

3. Work as quickly and as carefully as you can.

4. For each question follow the instructions and write your answer in the box as shown in the below picture.

5. If you need to do working out, you can use the space around the question.

6. The number under each circle at the side of the page tells you the maximum number of marks available for each question.

7. Some questions have a method box like this:

Show your method

For these questions, you may get a mark for showing your method.

8. If you cannot do a question, go on to the next one. You can come back to it later, if you have time. If you finish before the end, go back and check your work.
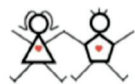
Symbols used:

Go to the next page.

Do not turn the page until told to do so.
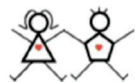
Stop working and await instructions.

1

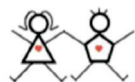$$7 + 4 \ = \boxed{}$$

$$19 - 9 \ = \boxed{}$$

1 mark

2

1 mark

3


```
+----------------+          +----------------+
|       :        |          |       :        |
+----------------+          +----------------+
```

◯

1 mark

4

🍬	(5) (2) (2) (5) (2)	**30**
apples	(5) (1) (1) (2)	**4**
cherries	(1) (1) (2)	**16**
tents	(10)(1)(2)(2)(5)(10)	**9**

◯
1 mark

5

(1) ( ) (1) ( ) ( ) (11) (13)

(2) ( ) (6) ( ) (10) (12)
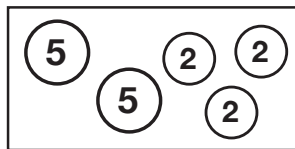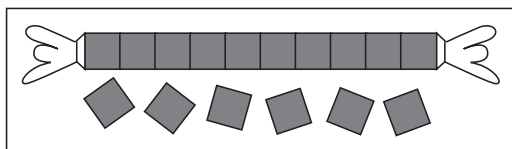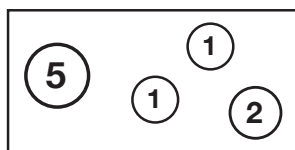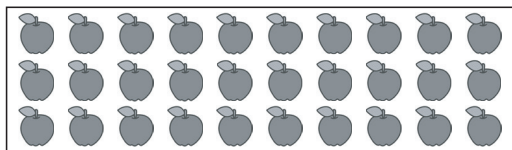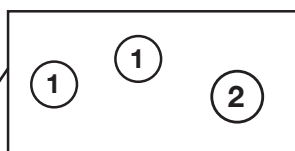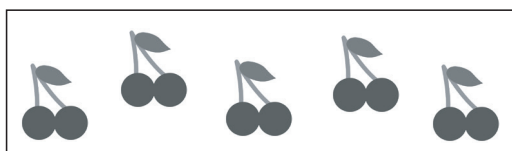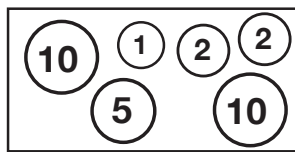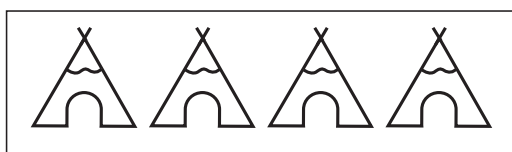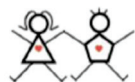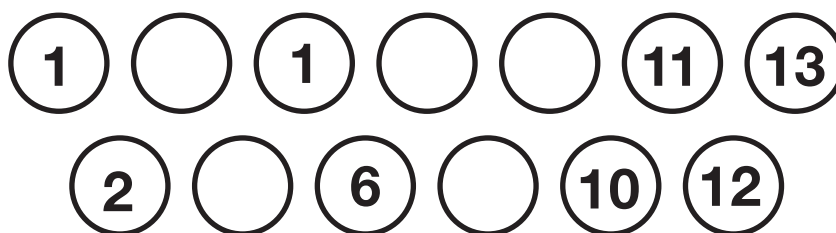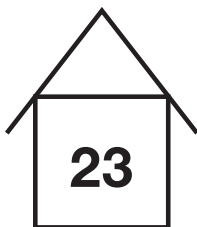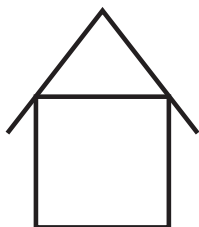
◯
1 mark
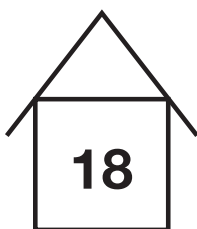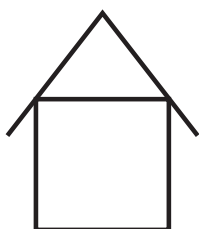
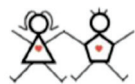**6**   **Write** the **next nearest numbers** to the **numbers given** in the empty places below.

i)

23
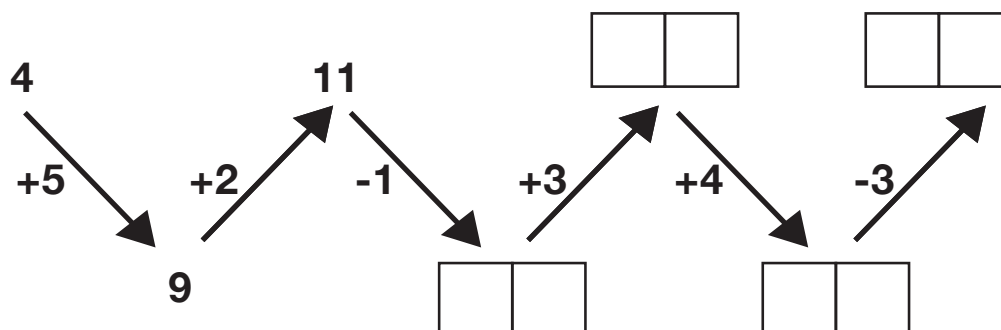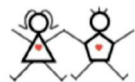
ii)

18
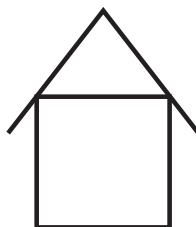
1 mark

7 **Write** in the **missing numbers** by following the arrows.

4   11

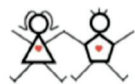+5   +2   -1   +3   +4   -3

9

1 mark

8 Look at the following lines.

Use a ruler to measure the length and write in the place given
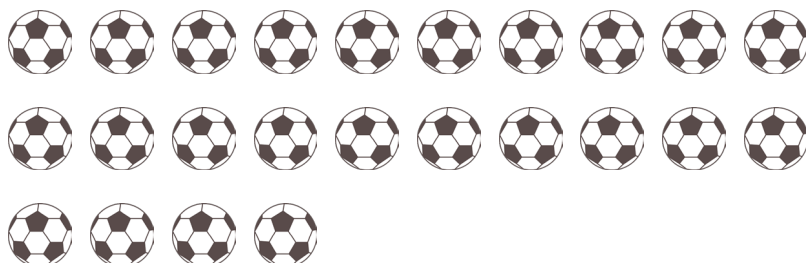
below.

cm

cm

cm
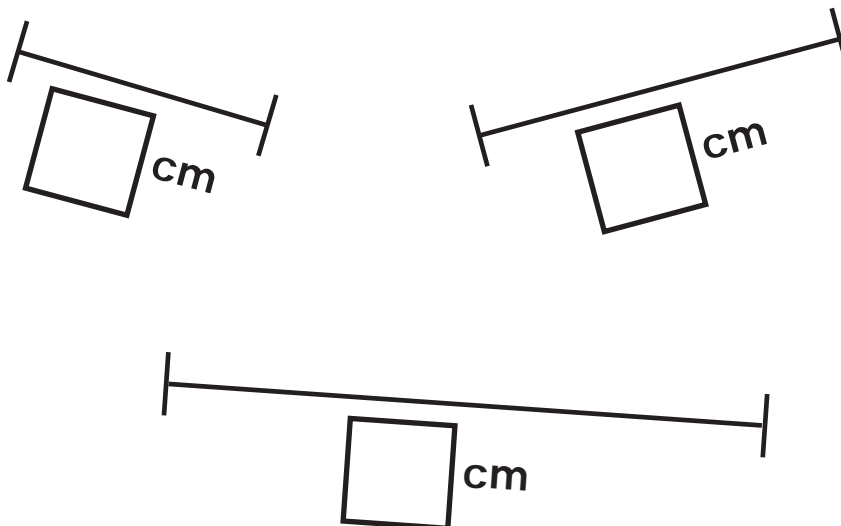
1 mark

9   We need to **pack 24 balls** in boxes. **One box** can **hold only 4 balls.**

How many boxes are required **to pack these 24 balls**?

Boxes

◯
1 mark

10   **Fill** in the **missing numbers** to **make** the calculation **correct.**
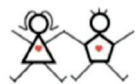
$$2 \times 3 = \boxed{} \div 6$$

$$4 + \boxed{} = 5 \times 11$$
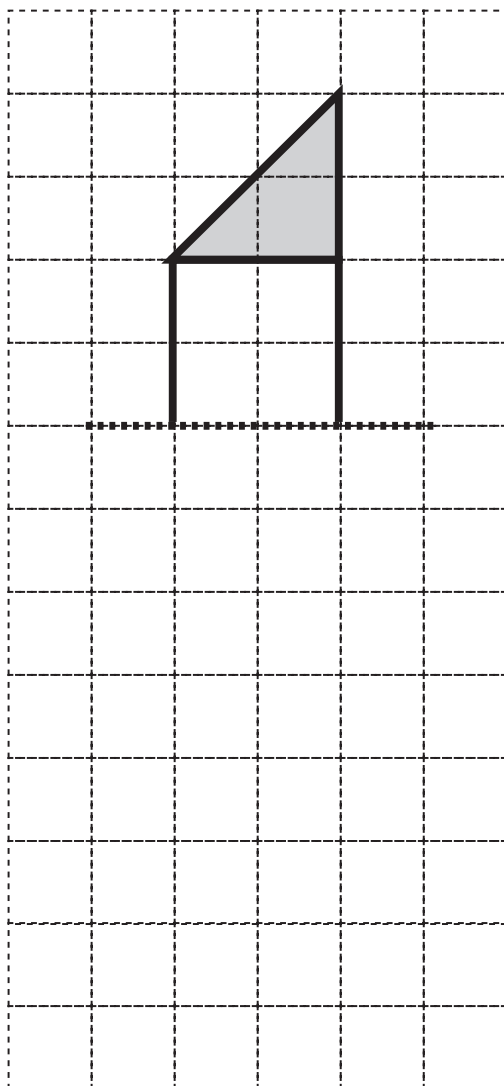
1 mark

11 **Look at the given rectangular grid.**
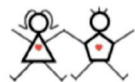
The dotted lines are the mirror lines.

Draw the **mirror image** of the given shape.

1 mark

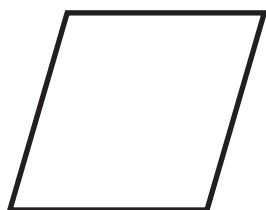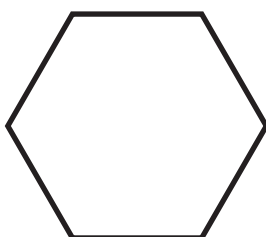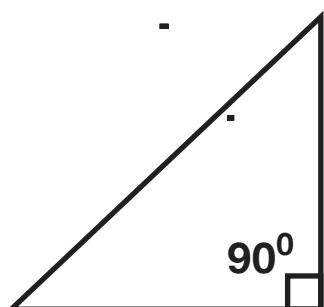**12** **Match** the **shapes** with its **correct name**.
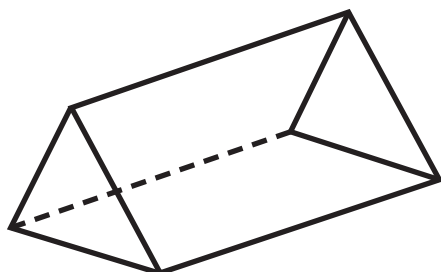

Prism

Right-angled triangle

Rhombus

Hexagon

90⁰
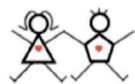
1 mark

13 **Match each** given figure with **its correct fraction.**
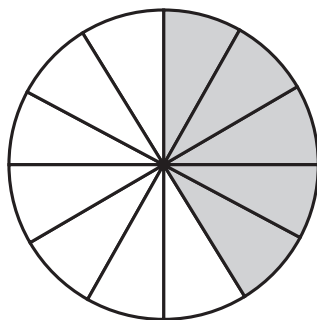
$$\frac{3}{8}$$
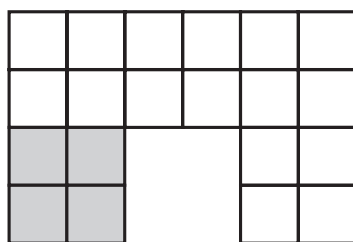
$$\frac{5}{12}$$
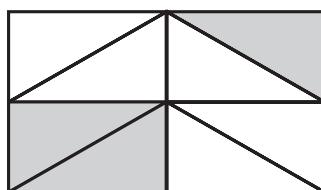
$$\frac{4}{20}$$

1 mark

14 **Draw** the **lines of symmetry** in the following figures.
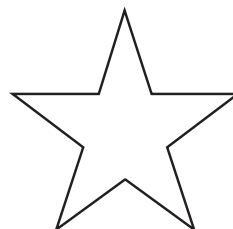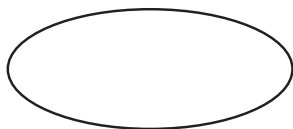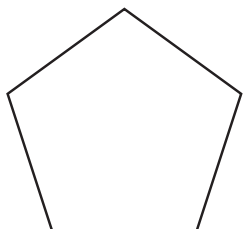
1 mark

15 **Write** these numbers in **order, starting** with the **smallest.**

89, 35, 64, 9, 13, 27, 79, 19

Smallest   **Largest**

◯
1 mark

16 Kiara **bought a box of 20 erasers** today.
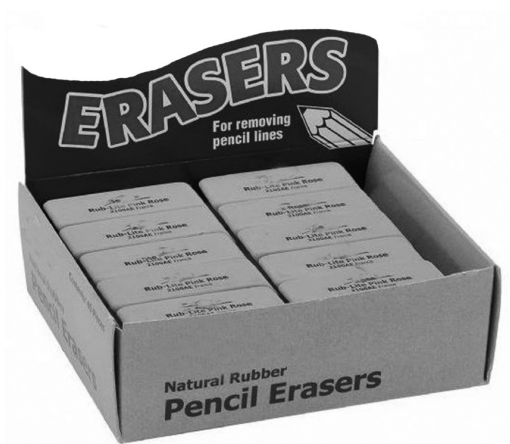
Yesterday she bought **1 more** box.

How many erasers she bought **altogether** ?

Erasers

◯
1 mark
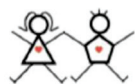
17 The following chart shows the sales at Tim's Toy Shop.

Sales at Tim's Toy Shop
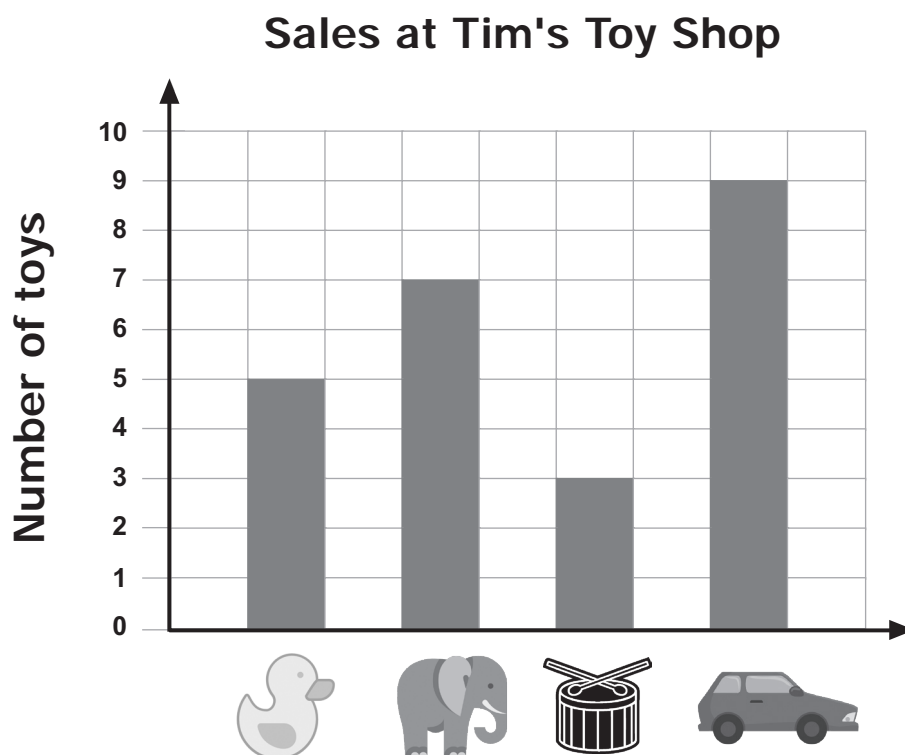
Observe the chart and **answer** the following questions.

i) How many elephants and **cars** were **sold** in **total?**

ii) How many more ducks were sold **than drums?**

2 marks

18 On these cards, the number should match the word.

Two of these cards are wrong.

Draw a **cross** on the **wrong cards**.

16
Sixty

21
Twenty-one

42
Forty-two

38
Thirty-eight

56
Fifty

1 mark

19 The **following table** shows the **tally for fruits purchased** by Mark.

Apples	||
Bananas	� |||| |||| |
Oranges	|||
Pears	|||
Grapes	|||| |

Use the data from the **tally chart to complete** the **graph** given below.

Number	Apples	Bananas	Oranges	Pears	Grapes
12					
11					
10					
9					
8					
7					
6					
5					
4					
3					
2					
1					

Fruits
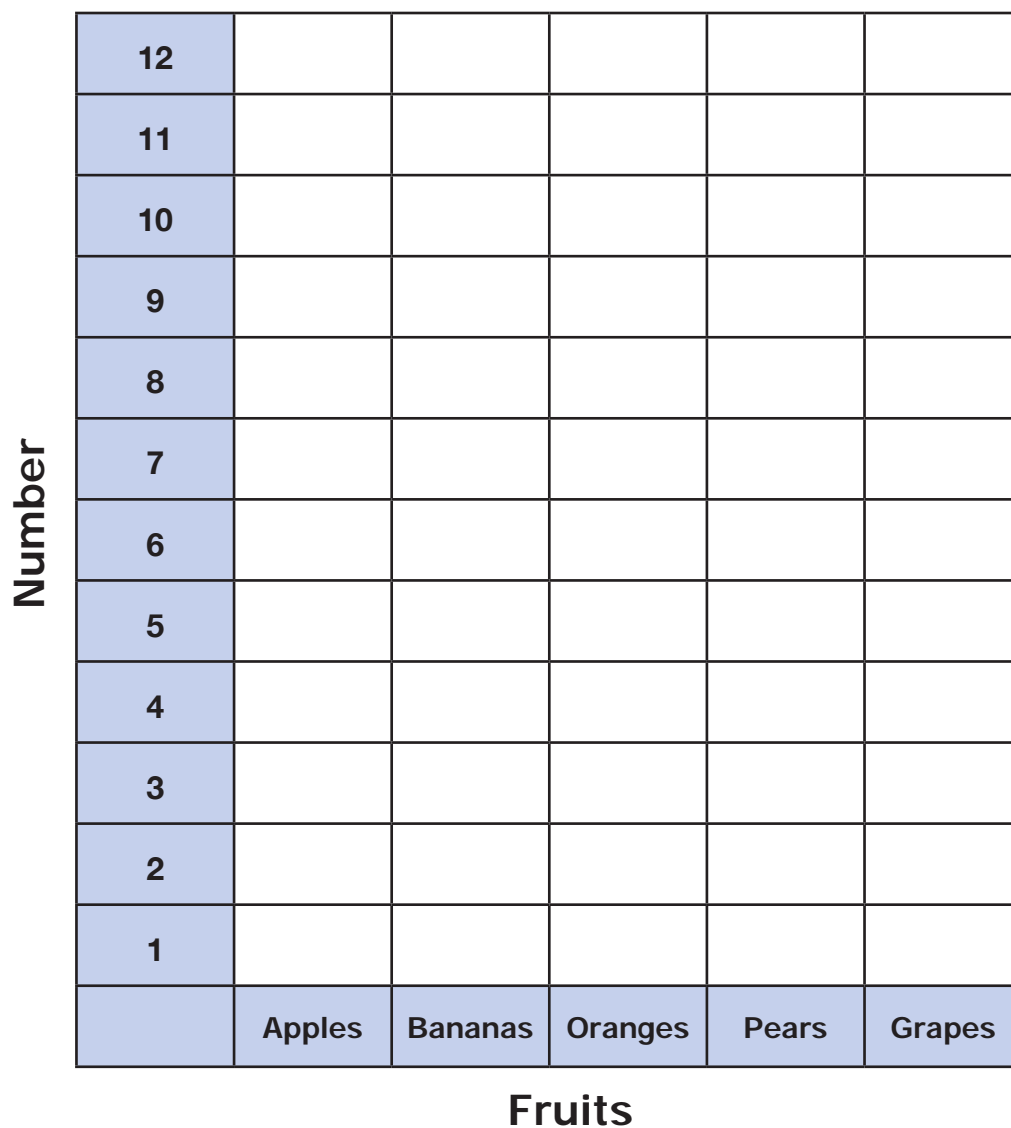
2 marks

20 **Write** the **missing number.**

$$42 \xrightarrow{\text{23 less}} \boxed{}$$

1 mark

21 **Circle** the **shape** that will **come next** in the patterns given below.

☆ ★ ★ ☆ ★ ★ ___?___   a. ★ b. ☆ C. ★

⬭⚫⬭⚫▯◼◣ ___?___   a. ▲ b. ◣ C. ◼
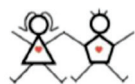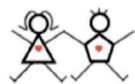
1 mark

22 **Look at the weighing scales given below.**

Write the **weights** in **kilograms** in the line **below the scale**.
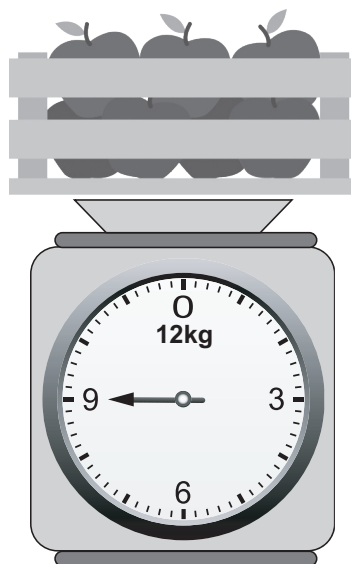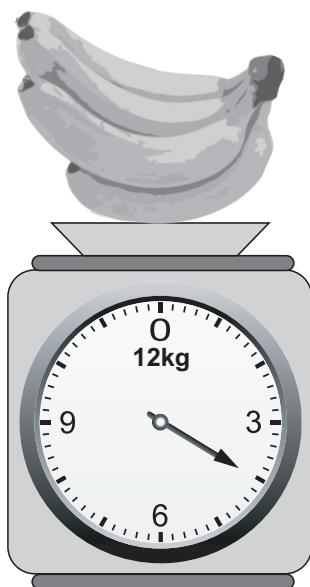
23   **Write** the missing digits to make the calculation correct.

Half of 60 =

Quarter of 60 =

Third of 39 =

1 mark

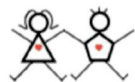**24**   Tom had to reach library by 3.30pm.

It takes him 2 hours to reach there by walking.

At what time should Tom leave home to reach the library without

any delay?

1 mark

25 **Write** the **missing digit** in each empty box to **make** the

calculation correct.

$$5\ \boxed{\ }\ -\ \boxed{\ }\ 8\ =\ 2\ 5$$

1 mark

26 The cat starts at 0 and jumps **6 units** at a time.

Draw their jumps on the number line.

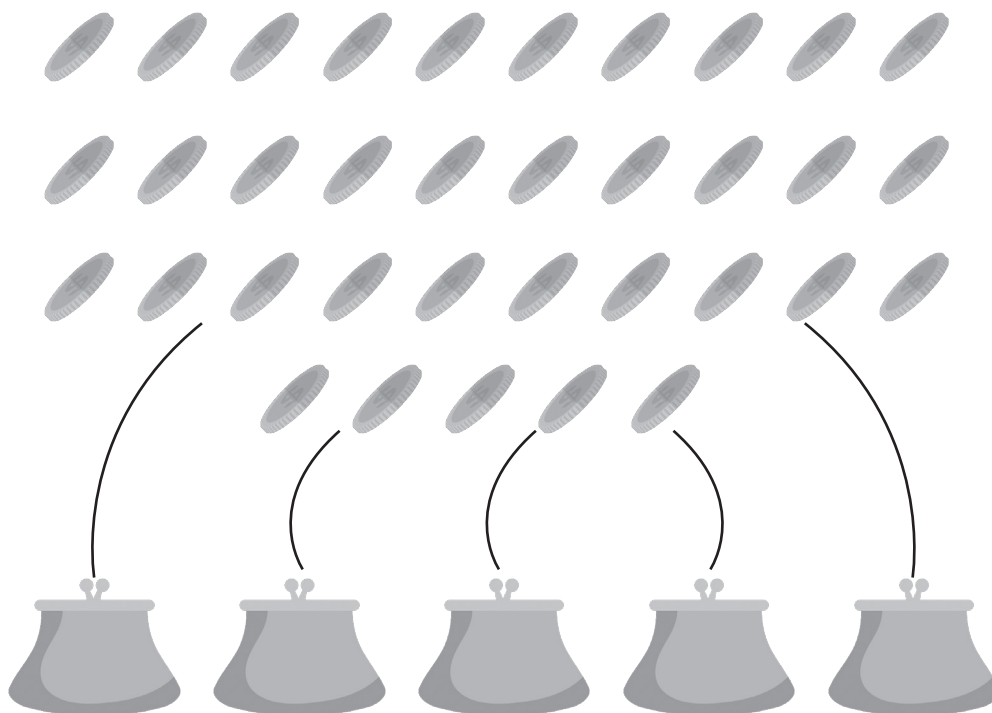0   5   10   15   20   25   30   35   40   45   50   55   60
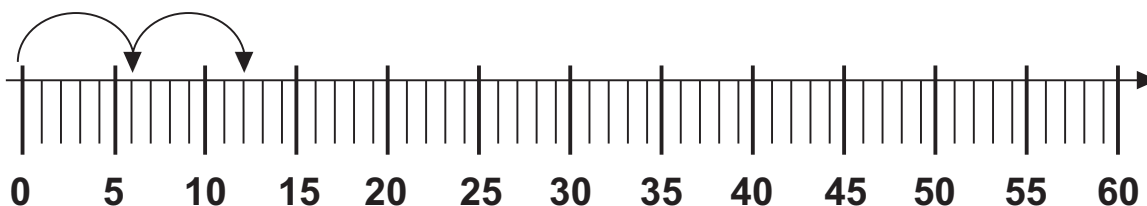
1 mark

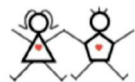**27** **Divide** the **35 coins equally** among the **5 purses**.

Write the missing digit in the box.

○ 1 mark

$$35 \text{ p} \div 5 = \boxed{} \text{ p}$$

28 Write the following **additions as multiplications**.

i)   9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 =

☐ X ☐ = ☐☐

i)   9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 =

☐ X ☐ = ☐☐

2 marks

29 Fill in the **missing digits** to make the calculation correct.

$$45 \div 9 + 2 \times 4 = \boxed{}$$
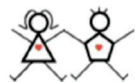
1 mark

30 Reema **had £40.**

She spent **£16** on chocolate packet and **£12** on a pencil box.
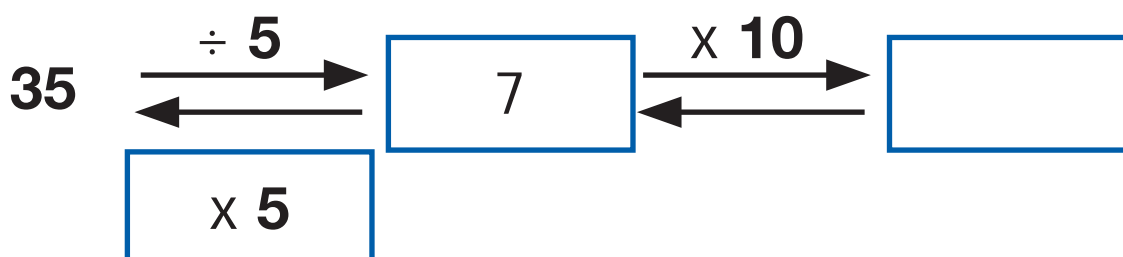
How much money is **left** with Reema?

£ [   ]

1 mark

31 **How many cl altogether** are there in all the buckets?

| 15cl | 15cl | 15cl | 15cl | 15cl |

cl

1 mark

32 Fill in the missing **digits and operations** to make the **calculation correct**.

One has been done for you.

35 ÷ **5** → ←

| 7 |

x **10** → ←

x **5**

1 mark