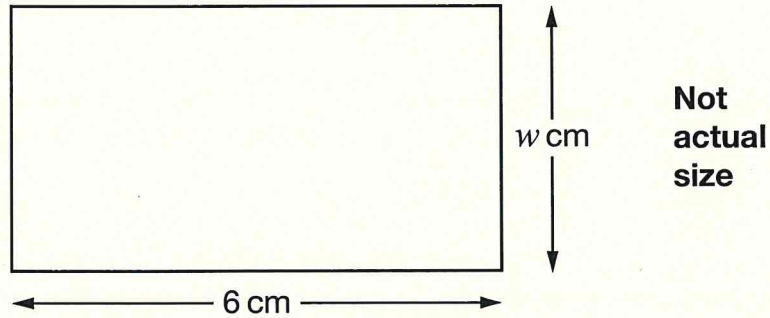


20

The length of this rectangle is 6 cm.

The width is w cm.



Circle **all** the methods below that can be used to work out the **perimeter** of the rectangle.

$$w \times 6$$

$$w \times 2 + 12$$

Handwritten: 2x6

$$2 \times (w + 6)$$

$$6 + w + 6 + w$$

2 marks



11

Here is a rule for the time it takes to cook a chicken.

**Cooking time = 20 minutes plus an extra
40 minutes for each kilogram**

How many minutes will it take to cook a 3 kg chicken?

$$40 \times 3 = 120$$

140 minutes

1 mark

$$120 + 20 = 140 \text{ minutes}$$

What is the mass of a chicken that takes 100 minutes to cook?

2 kg

1 mark

$$? \rightarrow \times 40 \rightarrow + 20 \rightarrow 100$$

$$2 \leftarrow : 40 \leftarrow - 20 \leftarrow 100$$



10

Ken thinks of a number.

He divides it by 3

The answer is 72

What number was Ken thinking of?

216

1 mark

$$\begin{array}{c} ? \rightarrow \div 3 \rightarrow 72 \\ \leftarrow \times 3 \leftarrow 72 \end{array}$$

11

Write the number that is **one thousand more** than 19,039

1 mark

Write the number that is **one hundred less** than 19,039

1 mark



L 0 0 0 7 0 A 0 1 1 2 4

26

This formula is used to estimate the mass (in kilograms) of young children.

$$\text{mass} = 2 \times (\text{age in years} + 5)$$

Stefan's sister is 4 years of age.

Use the formula to estimate her mass.

$$2 \times (4 + 5)$$

18 kg

1 mark

The mass of Megan's brother is 16 kilograms.

Use the formula to estimate his age.

3 years

1 mark

$$\begin{array}{ccccccc} \text{age} & \rightarrow & +5 & \rightarrow & \times 2 & \rightarrow & \text{mass} \\ & & & & & & \\ & \leftarrow & -5 & \leftarrow & \div 2 & \leftarrow & 16 \end{array}$$



L 0 0 0 7 0 A 0 2 3 2 4

23

Here is a pattern of number pairs.

a	b
1	9
2	19
3	29
4	39

↘ +10

Complete the **rule** for the number pattern.

$$b = \boxed{10} \times a - \boxed{1}$$

1 mark

23

Write the missing **decimals**.

One has been done for you.

a	b	$\frac{a}{b}$
1	4	0.25
3	20	$\frac{3}{20} = 0.15$
5	8	0.625

2 marks

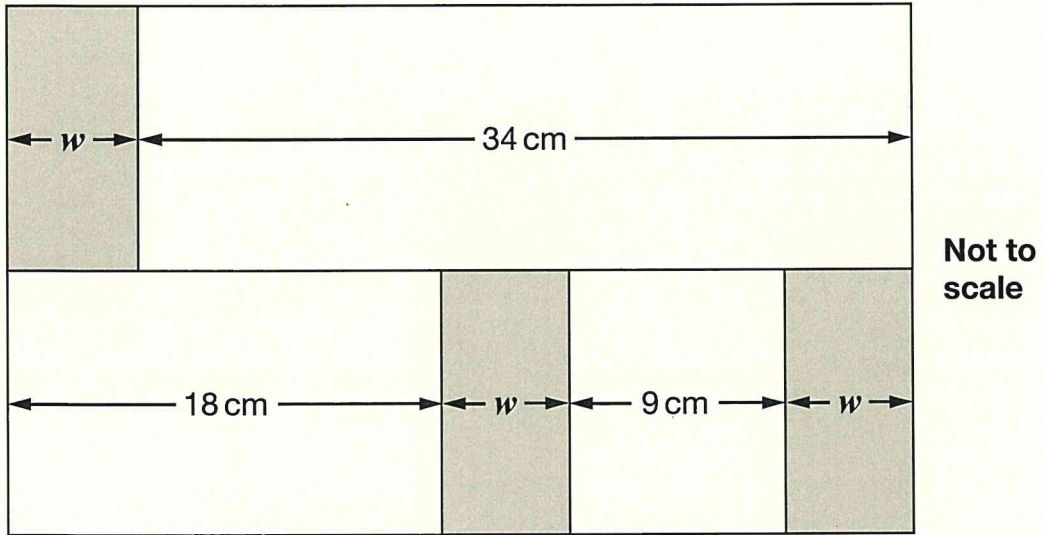
$$\frac{5}{8}$$

$$8 \overline{) 5.5000} \quad 0.625$$



22

In this diagram, the shaded rectangles are all of equal width (w).



Calculate the width (w) of one shaded rectangle.

Show your method

$$18 + 9 = 27$$

$$34 - 27 = 7$$

$$\text{so } w = 7$$

7 cm

2 marks

what's the same and what is different?

34			w
18	9	w	w



F 0 0 0 8 0 A 0 2 1 2 4