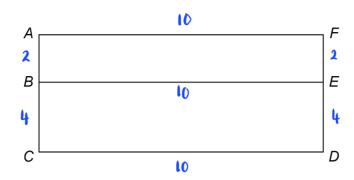
1 ABEF and ACDF are rectangles.

$$AF = 10 \text{ cm}$$

$$AB = 2 \text{ cm}$$

$$BC = 4 \text{ cm}$$



Not drawn accurately

Work out

perimeter ABEF: perimeter ACDF

Give your answer in its simplest form.

[3 marks]

$$\frac{\div 8 \left(\begin{array}{c} 24:32\\ 3:4 \end{array}\right) \div 8}{}$$

Answer

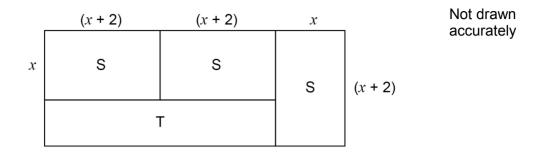
(1

3

4

- 2 S and T are rectangles.
 - S has dimensions (x + 2) and x.

Some of these rectangles make the larger rectangle shown.

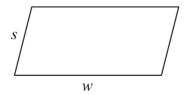


Work out an expression for the perimeter of T.

Give your answer in its simplest form.

Perimeter of $T = \lambda(x+x+x+x) + \lambda(x+x-x)$ $= \lambda(xx+4) + \lambda(x)$ = 4x + 8 + 4 = 4x + 12 = 4(x+3)Answer

3 Here is a parallelogram.



Circle the expression for the **perimeter**.

[1 mark]

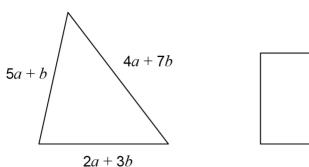




$$s + w$$

Not drawn accurately

4 Here are a triangle and a rectangle.



a + 4b 4a + 2b

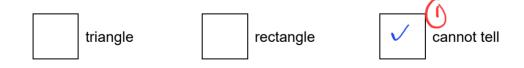
 $\it a$ and $\it b$ are positive numbers.

Which shape has the larger perimeter?

You **must** work out expressions for both perimeters.

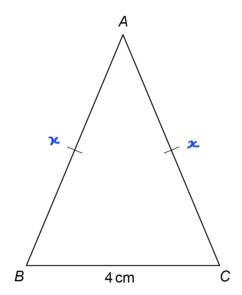
[3 marks]

Tick a box.



5 In this isosceles triangle,

$$AB = AC$$



Not drawn accurately

The perimeter of the triangle is 22 cm

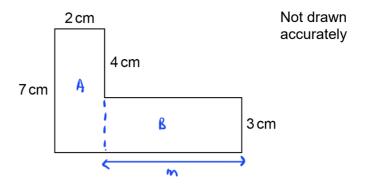
Work out the length of AB.

[3 marks]

$$x = \frac{18}{2} \bigcirc$$

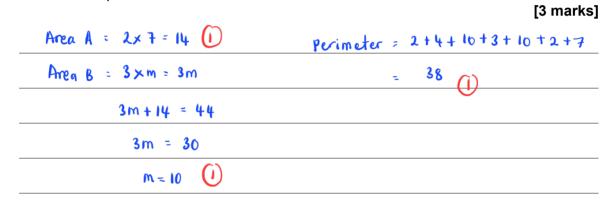
Answer q cm

6 The L-shape is made from rectangles.



The area is $44 \, \text{cm}^2$

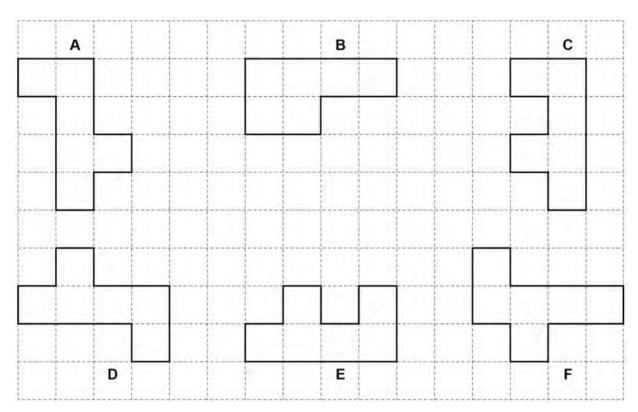
Work out the perimeter.



Answer cm

7 Here are some shapes.

Each shape has an area of six square centimetres.

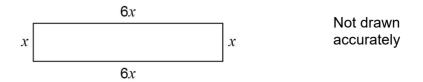


7 (a) Which has the bigger perimeter, shape A or shape B?You must show the lengths of both perimeters.

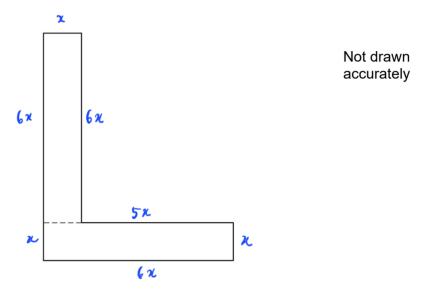
[2 marks]

Answer A

B The length of this rectangle is 6 times the width.



Two of these rectangles are joined, with no overlap, to make this L-shape.



The perimeter of the L-shape is 98.8 cm

Work out the value of the perimeter of **one** of the rectangles.

[4 marks]

$$6x + x + 6x + 5x + x + 6x + x = 98.8$$

$$26x = 98.8$$

$$x = 98.8 \div 26$$

$$= 3.8$$

Perimeter of one rectangle:
$$x+x+6x+6x$$

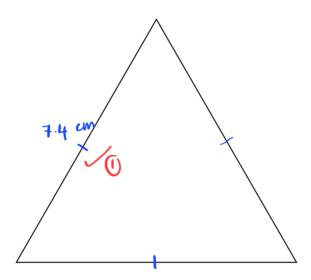
$$= 14x = 14(3.8)$$

$$= 53.2$$

Answer _____ cm

9 Use a ruler for this question.

Here is an accurate drawing of an equilateral triangle.



By measuring, work out the perimeter of the triangle.

State the units of your answer.

[3 marks]

$$7.4 \text{ cm } \times 3 = 22.2 \text{ cm}$$

Answer 22.2 cm