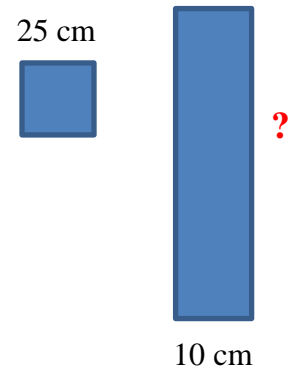


1. The perimeter of a rectangle is the *same* as the perimeter of a square. If the length of a square is 25cm and the width of the rectangle is 10cm. Find the length of the rectangle.

Workings

$$\begin{aligned} \text{Perimeter of square} &= \text{length of one side} \times 4 \\ &= 25 \times 4 = 100 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{Perimeter of rectangle} &= (\text{length} + \text{width}) \times 2 \\ \text{or } (\text{length} + \text{width}) \times 2 &= \text{Perimeter of rectangle} \\ (\text{length} + 10 \text{ cm}) \times 2 &= 100 \text{ cm} \\ \text{length} + 10 \text{ cm} &= 100 \text{ cm} \div 2 = 50 \text{ cm} \\ \text{length} &= 50 \text{ cm} - 10 \text{ cm} = 40 \text{ cm} \end{aligned}$$



ANSWER = 40 cm

2. A square of side 11 cm has the *same* perimeter as a rectangle. The length of the rectangle is 14cm. What is the width of the rectangle?

Workings

$$\begin{aligned} \text{Perimeter of square} &= \text{length of one side} \times 4 \\ &= 11 \times 4 = 44 \text{ cm} \end{aligned}$$

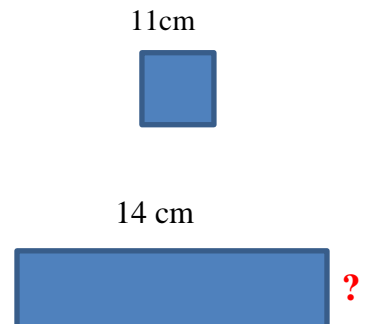
$$\text{Perimeter of rectangle} = (\text{length} + \text{width}) \times 2$$

$$\text{or } (\text{length} + \text{width}) \times 2 = \text{Perimeter of rectangle}$$

$$(14 + \text{width}) \times 2 = 44 \text{ cm}$$

$$14 + \text{width} = \frac{44}{2} \text{ cm}$$

$$\text{Width} = 22 \text{ cm} - 14 \text{ cm} = 8 \text{ cm} \quad \text{ANSWER} = 8 \text{ cm.}$$



3. The perimeter of a rectangle is 216 cm. Its length is *5 times* its width. What is the length of the rectangle?

$$(\text{length} + \text{width}) \times 2 = \text{Perimeter of rectangle}$$



$$(\underline{5 \times \text{width}} + \text{width}) \times 2 = 216 \text{ cm}$$

$$6 \text{ widths} = 216 \div 2 = 108 \text{ cm}$$

$$\text{Width} = 108 \div 6 = 18 \text{ cm}$$

Answer = 18 cm