

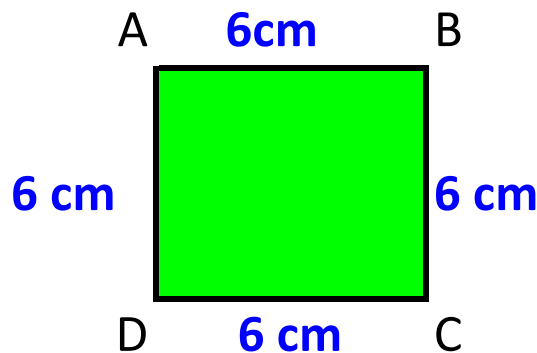
PERIMETER

Perimeter of a plane figure is the measure of its boundary.

* Note - While doing perimeter problems we will draw a rough diagram of the figure given.

Perimeter of a square

1 Find the perimeter of the given square ABCD having side 6cm.



Ans METHOD -1

Perimeter of the square ABCD

$$= AB + BC + CD + DA$$

$$= 6 \text{ cm} + 6 \text{ cm} + 6 \text{ cm} + 6 \text{ cm}$$

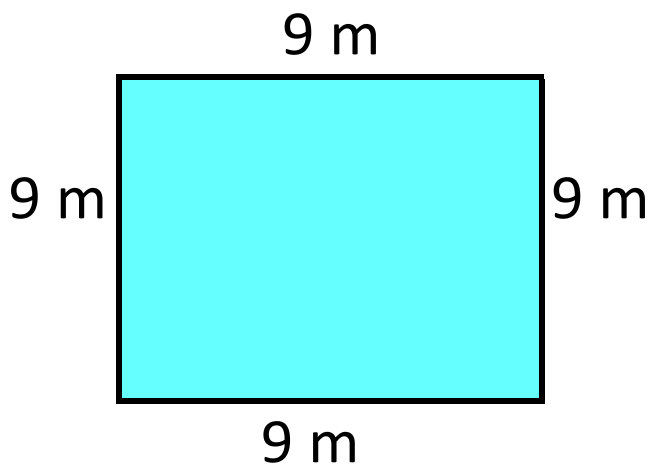
$$= 24 \text{ cm}$$

METHOD -2

$$\begin{aligned} \text{Perimeter of the square ABCD} \\ &= 4 \times \text{length of 1 side} \\ &= 4 \times 6 \text{ cm} \\ &= 24 \text{ cm} \end{aligned}$$

2 Find the perimeter of the given figure

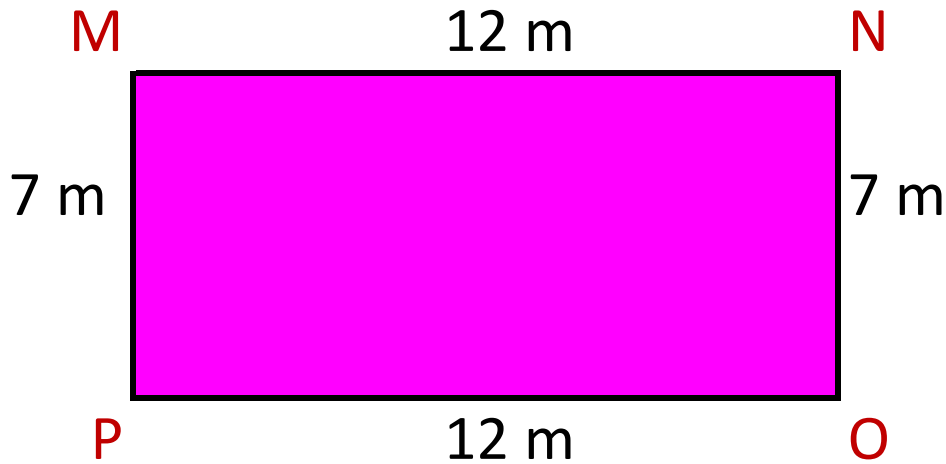
Solution -



$$\begin{aligned} \text{Perimeter of the square} \\ &= 4 \times \text{length of 1 side} \\ &= 4 \times 9 \text{ cm} \\ &= 36 \text{ m} \end{aligned}$$

Perimeter of a rectangle

3 Find the perimeter of the rectangle MNOP having length = 12 m and breadth = 7 m



Solution -

Method - 1

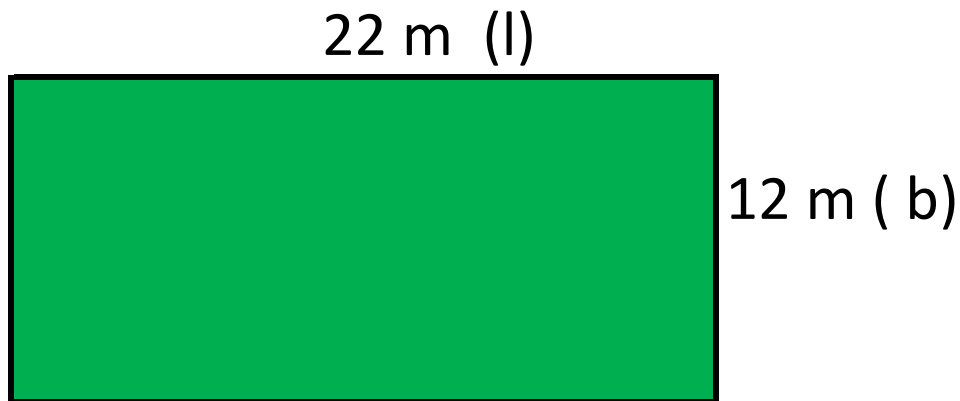
$$\begin{aligned}\text{Perimeter of rectangle MNOP} &= MN + NO + OP + MP \\ &= 12 \text{ m} + 7 \text{ m} + 12 \text{ m} + 7 \text{ m} \\ &= 38 \text{ m}\end{aligned}$$

Method - 2

$$\begin{aligned}\text{Perimeter of rectangle MNOP} &= 2 (\text{length} + \text{breadth}) \\ &= 2 (12 \text{ m} + 7 \text{ m}) \\ &= 2 \times 19 \text{ m} \\ &= 38 \text{ m}\end{aligned}$$

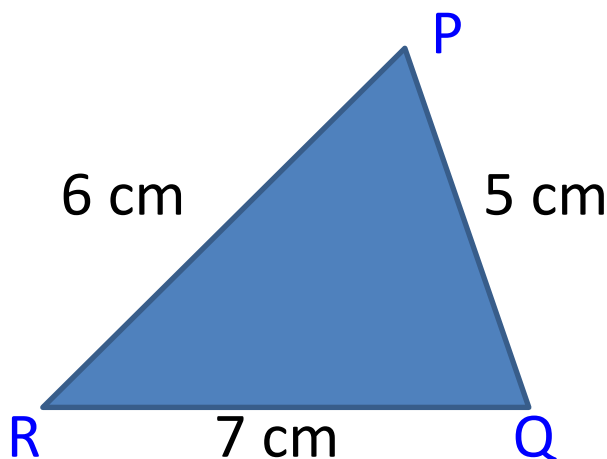
4 Find the perimeter of rectangular field having length = 22 m and breadth = 15 m

Solution -



$$\begin{aligned} \text{Perimeter of the rectangular field} &= 2 (\text{length} + \text{breadth}) \\ &= 2 (22 \text{ m} + 12 \text{ m}) \\ &= 2 \times 34 \text{ m} \\ &= 68 \text{ m} \end{aligned}$$

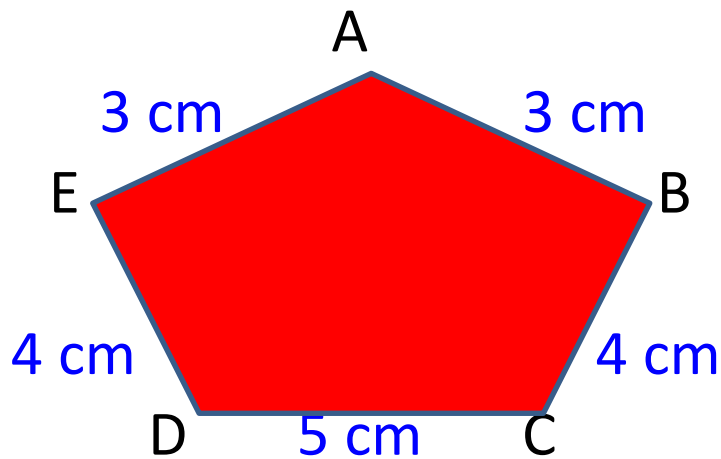
5 Find the perimeter of the given figure



Solution -

$$\begin{aligned} &\text{Perimeter of triangle PQR} \\ &= PQ + QR + RP \\ &= 5 \text{ cm} + 7 \text{ cm} + 6 \text{ cm} \\ &= 18 \text{ cm} \end{aligned}$$

6 Find the perimeter of the given figure



Solution -

$$\begin{aligned} &\text{Perimeter of the given figure} \\ &= AB + BC + CD + DE + EA \\ &= 3 \text{ cm} + 4 \text{ cm} + 5 \text{ cm} + 4 \text{ cm} + 3 \text{ cm} \\ &= 19 \text{ cm} \end{aligned}$$
