

PERIMETER OF A RECTANGLE

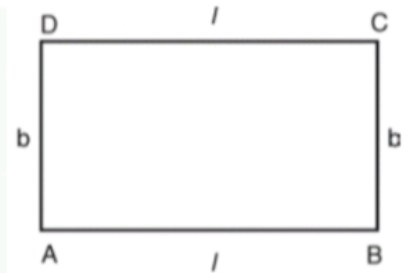
The sum of all the sides of a rectangle is known as its perimeter.

$$\text{Perimeter} = l + b + l + b$$

$$\text{Perimeter} = 2(l + b)$$

$$\text{Length} = \frac{P}{2} - \text{breadth}$$

$$\text{Breadth} = \frac{P}{2} - \text{length}$$



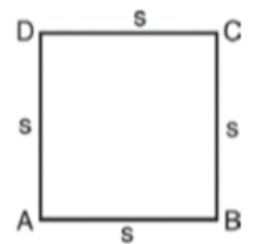
PERIMETER OF A SQUARE

In a square, all four sides are the same length, so the perimeter is four times the length of a side.

$$\text{Perimeter of a square} = 2(\text{length} + \text{breadth})$$

$$= 2(s + s) = 2(2s)$$

$$= 4 \times s = 4 \times \text{side.}$$



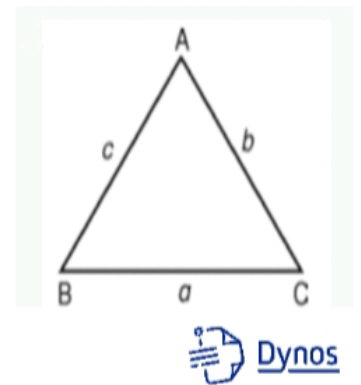
$$\text{Side of a square} = \frac{1}{4} (\text{perimeter of the square})$$



PERIMETER OF A TRIANGLE

The perimeter of a triangle is the sum of the length of its sides. If the length of the sides of a triangle are a , b and c respectively, then,

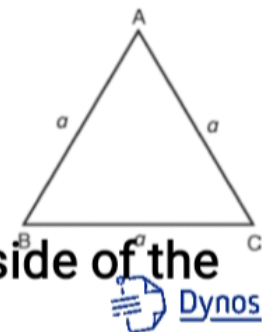
$$\begin{aligned}\text{Perimeter (P)} &= AB + BC + CA \\ &= c + a + b \\ &= a + b + c \text{ units}\end{aligned}$$



PERIMETER OF A EQUILATERAL TRIANGLE

Each side of an equilateral triangle is of the same length. Therefore, $AB = BC = CA$.

$$\begin{aligned}\text{Perimeter of } \triangle ABC &= AB + BC + CA = AB + AB + AB \\ [\because AB &= BC = CA] \\ &= 3 \times (\text{Length of a side of } \triangle ABC) \\ &= 3 \times a\end{aligned}$$



Perimeter of an equilateral triangle = $3 \times$ Length of a side of the triangle