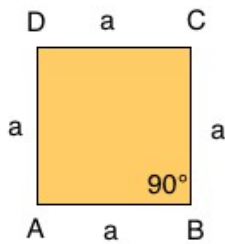




Square

Definition:

A **square** is a regular polygon (flat shape) with four equal sides.



Area of a square:

a) The Area is the side length squared:

$$\text{Area} = a \times a \quad \text{or} \quad \text{Area} = a^2$$

b) The Area is also half of the diagonal squared:

$$\text{Area} = \frac{d \times d}{2} \quad \text{or} \quad \text{Area} = \frac{d^2}{2}$$

Perimeter of a Square:

The Perimeter is the distance around the edge = 4 times the side length:

$$\text{Perimeter} = 4 \times a$$

Diagonals of a Square:

The Diagonal is the side length times the square root of 2:

$$\text{Diagonal} = a \times \sqrt{2}$$