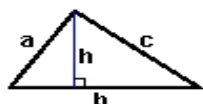


## Area and Perimeter Formulas

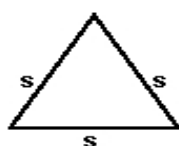


### Triangles - Common

A polygon with three angles and three sides.

$$\text{Area} = \frac{1}{2} \text{ base} \times \text{height} = \frac{1}{2} bh$$

$$\text{Perimeter} = a + b + c$$

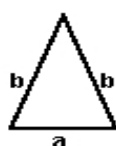


### Equilateral Triangles

A Triangle with all three sides of equal length.

$$\text{Area} = \frac{\sqrt{3}}{4} \times (\text{side})^2 = \frac{\sqrt{3}}{4} s^2$$

$$\text{Perimeter} = 3 \times \text{sides} = 3s$$

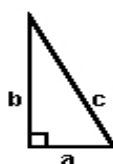


### Isosceles Triangles

A Triangle with two sides of equal length.

$$\text{Area} = \frac{a}{4} \sqrt{4b^2 - a^2}$$

$$\text{Perimeter} = a + 2b$$

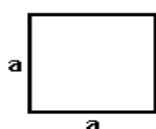


### Right Triangles

A Triangle with one right angle.

$$\text{Area} = \frac{ba}{2}$$

$$\text{Perimeter} = a + b + c$$



### Square

A Square is a quadrilateral with four equal sides and angles at  $90^\circ$ .

$$\text{Area} = a^2$$

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