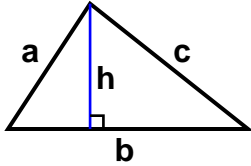


# Area and Perimeter Formulas

## Triangles - Common

A polygon with three angles and three sides.

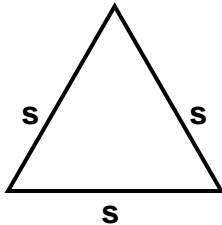


$$\text{Area} = \frac{1}{2} \text{ base} \times \text{height} = \frac{1}{2} bh$$

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

## Equilateral Triangles

A Triangle with all three sides of equal length.

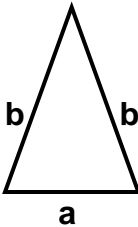


$$\text{Area} = \frac{\sqrt{3}}{4} \times (\text{side})^2 = \frac{\sqrt{3}}{4} s^2$$

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

## Isosceles Triangles

A Triangle with two sides of equal length.

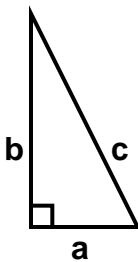


$$\text{Area} = \frac{a}{4} \sqrt{4b^2 - a^2}$$

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

## Right Triangles

A Triangle with one right angle.

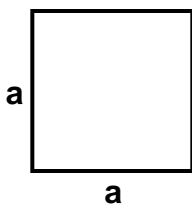


$$\text{Area} = \frac{ba}{2}$$

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

## Square

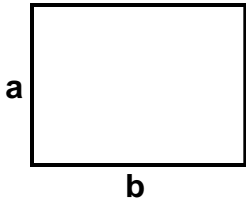
A Square is a quadrilateral with four equal sides and angles at  $90^\circ$ .



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

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

# Area and Perimeter Formulas

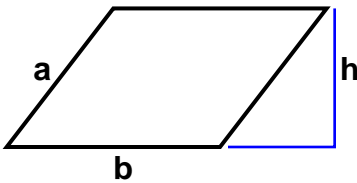


## Rectangle

A Rectangle is a quadrilateral with four equal angles at  $90^\circ$ .

$$\text{Area} = ab$$

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

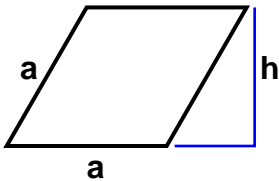


## Parallelogram

A Parallelogram is a quadrilateral with opposite sides parallel.

$$\text{Area} = bh$$

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

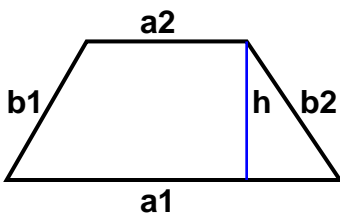


## Rhombus

A Rhombus is a Parallelogram with all sides equal.

$$\text{Area} =$$

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

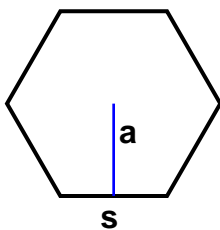


## Trapezoid

A Trapezoid is a Quadrilateral with at least one pair of parallel sides.

$$\text{Area} = \frac{a1 + a2}{2} h$$

$$\text{Perimeter} = a1 + a2 + b1 + b2$$



## Regular n-gon

A Regular Polygon is a polygon for which n sides and angles are equal.

$$\text{Area} = \frac{1}{2} (a n s)$$

$$\text{Perimeter} = n s$$