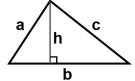
Area and Perimeter Formulas

Triangles - Common

A polygon with three angles and three sides.



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

Perimeter =
$$a + b + c$$

s

Equilateral Triangles

A Triangle with all three sides of equal length.

Area =
$$\frac{\sqrt{3}}{4}$$
 x (side)² = $\frac{\sqrt{3}}{4}$ s²

Perimeter =
$$3 \times sides = 3 s$$

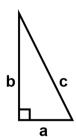
b b b

Isosceles Triangles

A Triangle with two sides of equal length.

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

Perimeter =
$$a + 2b$$

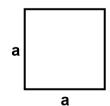


Right Triangles

A Triangle with one right angle.

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

Perimeter =
$$a + b + c$$

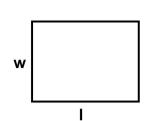


Square

A Square is a quadrilateral with four equal sides and angles at 90.

Area =
$$a^2$$

Area and Perimeter Formulas

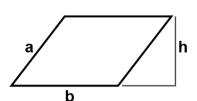


Rectangle

A Rectangle is a quadrilateral with four equal angles at 90.

$$Area = Iw$$

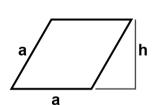
Perimeter =
$$2(w + I)$$



Parallelogram

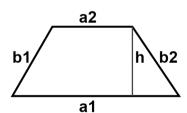
A Parallelogram is a quadrilateral with opposite sides parallel.

Perimeter =
$$2(a + b)$$



Rhombus

A Rhombus is a Parallelogram with all sides equal.

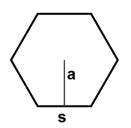


Trapezoid

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

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

Perimeter =
$$a1 + a2 + b1 + b2$$



Regular n-gon

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

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

Perimeter =
$$n s$$