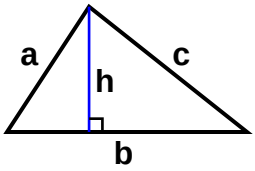
Area and Perimeter Formulas

Triangles - Common

A polygon with three angles and three sides.

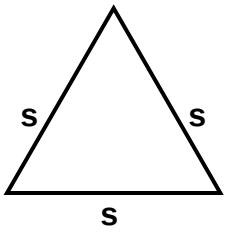


Area $= \frac{1}{2}$ **base x height** $= \frac{1}{2}$ **bh**

Perimeter = a + b + c

Equilateral Triangles

A Triangle with all three sides of equal length.

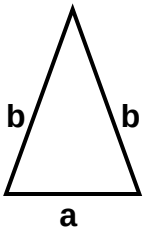


Area $= \frac{\sqrt{3}}{4}$ **x (side)**^{2} $= \frac{\sqrt{3}}{4}$ **s**^{2}

Perimeter = 3 x sides = 3 s

Isosceles Triangles

A Triangle with two sides of equal length.

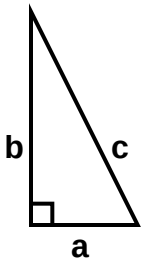


Area $= \frac{a}{4}\sqrt{4b^2 - a^2}$

Perimeter = a + 2 b

Right Triangles

A Triangle with one right angle.

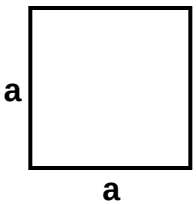


Area $= \frac{ba}{2}$

Perimeter = a + b + c

Square

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

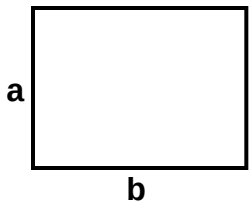


Area $= a^2$

Perimeter = 4a

Area and Perimeter Formulas

Rectangle

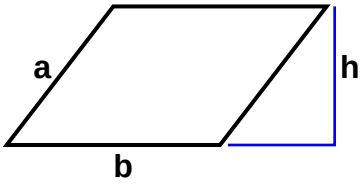


A Rectangle is a quadrilateral with four equal angles at 90°.

Area = ab

Perimeter = 2(a + b)

Parallelogram

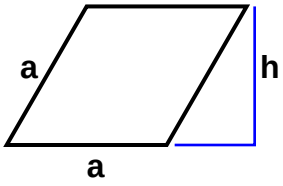


A Parallelogram is a quadrilateral with opposite sides parallel.

Area = bh

Perimeter = 2(a + b)

Rhombus

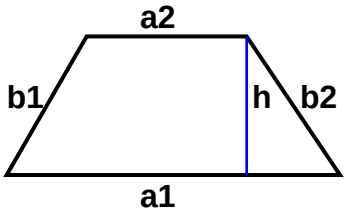


A Rhombus is a Parallelogram with all sides equal.

Area = ah

Perimeter = 4a

Trapezoid

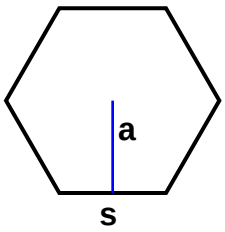


A Trapezoid is a Quadrilateral with at least one pair of parallel sides.

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