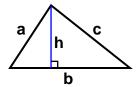
# **Area and Perimeter Formulas**

# **Triangles - Common**

A polygon with three angles and three sides.



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

Perimeter = 
$$a + b + c$$

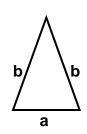
# s s

# **Equilateral Triangles**

A Triangle with all three sides of equal length.

Area = 
$$\frac{\sqrt{3}}{4}$$
 x (side)<sup>2</sup> =  $\frac{\sqrt{3}}{4}$  s<sup>2</sup>

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

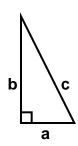


# **Isosceles Triangles**

A Triangle with two sides of equal length.

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

Perimeter = 
$$a + 2b$$

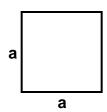


# **Right Triangles**

A Triangle with one right angle.

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

Perimeter = 
$$a + b + c$$



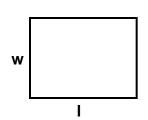
#### **Square**

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

Area = 
$$a^2$$



# **Area and Perimeter Formulas**

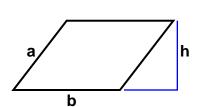


# Rectangle

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

$$Area = Iw$$

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

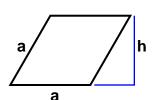


# **Parallelogram**

A Parallelogram is a quadrilateral with opposite sides parallel.

$$Area = bh$$

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

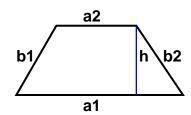


#### **Rhombus**

A Rhombus is a Parallelogram with all sides equal.

$$Area = ah$$

$$Perimeter = 4a$$

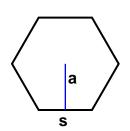


#### **Trapezoid**

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

Area = 
$$\frac{a1 + a^2}{2}$$
 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)

$$Perimeter = n s$$

