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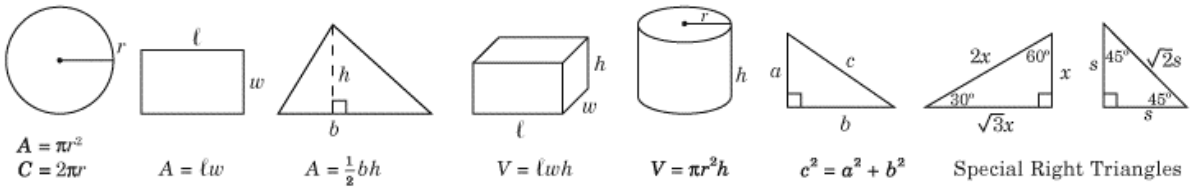
SAT MATH FORMULAS – QUICK REFERENCE SHEET



$A = \pi r^2$ $C = 2\pi r$ | $A = \ell w$ | $A = \frac{1}{2}bh$ | $V = \ell wh$ | $V = \pi r^2 h$ | $c^2 = a^2 + b^2$ | Special Right Triangles

The number of degrees of arc in a circle is 360.
The measure of degrees of a straight angle is 180.
The sum of the measures in degrees of the angles of a triangle is 180.

$$Percent\ Change = \frac{Change}{Original} \times 100$$

$$\text{Slope} = m = \frac{rise}{run} = \frac{y_2 - y_1}{x_2 - x_1}$$

The third side of a triangle is between the difference and sum of the other two sides.

The number of integers from ***a*** to ***b***, inclusive is ***b* – *a* + 1**

$$\text{Average Speed} = \frac{2(\text{Speed1})(\text{Speed2})}{\text{Speed1} + \text{Speed2}}$$

$y = ax^2 + bx + c$ $y - k = a(x - h)^2$

Sum = Average · Number

$y = mx + b$ $y = b$ $x = a$

Parallel lines: same slope.

Perpendicular lines: negative reciprocal slopes

Total = *X* + *Y* – Both + Neither

distance = rate · time

$$d^2 = a^2 + b^2 + c^2$$

$(n - 2) \cdot 180$