

## FORMULAS

<b>AREA of a:</b>	<p>square rectangle parallelogram triangle trapezoid circle</p>	<p>Area = side<sup>2</sup> Area = length × width Area = base × height Area = <math>\frac{1}{2}</math> × base × height Area = <math>\frac{1}{2}</math> × (base<sub>1</sub> + base<sub>2</sub>) × height Area = <math>\pi</math> × radius<sup>2</sup>; <math>\pi</math> is approximately equal to 3.14.</p>
<b>PERIMETER of a:</b>	<p>square rectangle triangle</p>	<p>Perimeter = 4 × side Perimeter = 2 × length + 2 × width Perimeter = side<sub>1</sub> + side<sub>2</sub> + side<sub>3</sub></p>
<b>CIRCUMFERENCE of a circle</b>		Circumference = $\pi$ × diameter; $\pi$ is approximately equal to 3.14.
<b>VOLUME of a:</b>	<p>cube rectangular solid square pyramid cylinder  cone</p>	<p>Volume = edge<sup>3</sup> Volume = length × width × height Volume = <math>\frac{1}{3}</math> × (base edge)<sup>2</sup> × height Volume = <math>\pi</math> × radius<sup>2</sup> × height; <math>\pi</math> is approximately equal to 3.14.  Volume = <math>\frac{1}{3}</math> × <math>\pi</math> × radius<sup>2</sup> × height; <math>\pi</math> is approximately equal to 3.14.</p>
<b>COORDINATE GEOMETRY</b>		<p>distance between points = <math>\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}</math>; (x<sub>1</sub>, y<sub>1</sub>) and (x<sub>2</sub>, y<sub>2</sub>) are two points in a plane. slope of a line = <math>\frac{y_2 - y_1}{x_2 - x_1}</math>; (x<sub>1</sub>, y<sub>1</sub>) and (x<sub>2</sub>, y<sub>2</sub>) are two points on the line.</p>
<b>PYTHAGOREAN RELATIONSHIP</b>		$a^2 + b^2 = c^2$ ; $a$ and $b$ are legs and $c$ the hypotenuse of a right triangle.
<b>MEASURES OF CENTRAL TENDENCY</b>		<p>mean = <math>\frac{x_1 + x_2 + \dots + x_n}{n}</math>, where the <math>x</math>'s are the values for which a mean is desired, and <math>n</math> is the total number of values for <math>x</math>.  median = the middle value of an odd number of <u>ordered</u> scores, and halfway between the two middle values of an even number of <u>ordered</u> scores.</p>
<b>SIMPLE INTEREST</b>		interest = principal × rate × time
<b>DISTANCE</b>		distance = rate × time
<b>TOTAL COST</b>		total cost = (number of units) × (price per unit)