

FORMULAS

AREA of a:	<p>square rectangle parallelogram triangle trapezoid circle</p>	<p>Area = side² Area = length × width Area = base × height Area = $\frac{1}{2}$ × base × height Area = $\frac{1}{2}$ × (base₁ + base₂) × height Area = π × radius²; π is approximately equal to 3.14.</p>
PERIMETER of a:	<p>square rectangle triangle</p>	<p>Perimeter = 4 × side Perimeter = 2 × length + 2 × width Perimeter = side₁ + side₂ + side₃</p>
CIRCUMFERENCE of a circle		<p>Circumference = π × diameter; π is approximately equal to 3.14.</p>
VOLUME of a:	<p>cube rectangular solid square pyramid cylinder cone</p>	<p>Volume = edge³ Volume = length × width × height Volume = $\frac{1}{3}$ × (base edge)² × height Volume = π × radius² × height; π is approximately equal to 3.14. Volume = $\frac{1}{3}$ × π × radius² × height; π is approximately equal to 3.14.</p>
COORDINATE GEOMETRY		<p>distance between points = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$; (x₁, y₁) and (x₂, y₂) are two points in a plane. slope of a line = $\frac{y_2 - y_1}{x_2 - x_1}$; (x₁, y₁) and (x₂, y₂) are two points on the line.</p>
PYTHAGOREAN RELATIONSHIP		<p>$a^2 + b^2 = c^2$; a and b are legs and c the hypotenuse of a right triangle.</p>
MEASURES OF CENTRAL TENDENCY		<p>mean = $\frac{x_1 + x_2 + \dots + x_n}{n}$, where the x's are the values for which a mean is desired, and n is the total number of values for x. 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>
SIMPLE INTEREST		<p>interest = principal × rate × time</p>
DISTANCE		<p>distance = rate × time</p>
TOTAL COST		<p>total cost = (number of units) × (price per unit)</p>