

Algebra I Reference Sheet

| | | |
|---------------------------|---------------------------|----------------------------------|
| 1 inch = 2.54 centimeters | 1 kilometer = 0.62 miles | 1 cup = 8 fluid ounces |
| 1 meter = 39.37 inches | 1 pound = 16 ounces | 1 pint = 2 cups |
| 1 mile = 5,280 feet | 1 pound = 0.454 kilograms | 1 quart = 2 pints |
| 1 mile = 1,760 yards | 1 kilogram = 2.2 pounds | 1 gallon = 4 quarts |
| 1 mile = 1.609 kilometers | 1 ton = 2,000 pounds | 1 gallon = 3.785 liters |
| | | 1 liter = 0.264 gallons |
| | | 1 liter = 1000 cubic centimeters |

| Area (A) | |
|-------------------|-----------------------------|
| Triangle | $A = \frac{1}{2}bh$ |
| Parallelogram | $A = bh$ |
| Circle | $A = \pi r^2$ |
| Circumference (C) | |
| Circle | $C = \pi d$ or $C = 2\pi r$ |
| Volume (V) | |
| General Prism | $V = Bh$ |
| Cylinder | $V = \pi r^2 h$ |
| Sphere | $V = \frac{4}{3}\pi r^3$ |
| Cone | $V = \frac{1}{3}\pi r^2 h$ |
| Pyramid | $V = \frac{1}{3}Bh$ |

| General Formulas | |
|--------------------------|---|
| Pythagorean Theorem | $a^2 + b^2 = c^2$ |
| Quadratic Formula | $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ |
| Arithmetic Sequence | $a_n = a_1 + (n - 1)d$ |
| Geometric Sequence | $a_n = a_1 \cdot r^{n-1}$ |
| Exponential Growth/Decay | $y = a \cdot b^x$ |
| Compound Interest | $A = P \left(1 + \frac{r}{n} \right)^{nt}$ |

