

CONVERSIONS

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|----------------------------------|-----------------------------------|----------------------------------|
| 1 cup = 8 fluid ounces | 1 inch = 2.54 centimeters | 1 pound = 16 ounces |
| 1 pint = 2 cups | 1 meter \approx 39.37 inches | 1 pound \approx 0.454 kilogram |
| 1 quart = 2 pints | 1 mile = 5280 feet | 1 kilogram \approx 2.2 pounds |
| 1 gallon = 4 quarts | 1 mile = 1760 yards | 1 ton = 2000 pounds |
| 1 gallon \approx 3.785 liters | 1 mile \approx 1.609 kilometers | |
| 1 liter \approx 0.264 gallon | 1 kilometer \approx 0.62 mile | |
| 1 liter = 1000 cubic centimeters | | |

AREA (A) FORMULAS

- square $A = s^2$
 rectangle $A = lw$
 parallelogram $A = bh$
 triangle $A = \frac{1}{2}bh$
 trapezoid $A = \frac{1}{2}h(b_1 + b_2)$
 circle $A = \pi r^2$

TOTAL SURFACE AREA (SA) FORMULAS

- cube $SA = 6s^2$
 right square pyramid $SA = s^2 + 2s\ell$
 (ℓ = slant height)
 right rectangular prism . . $SA = 2(lw) + 2(hw) + 2(lh)$

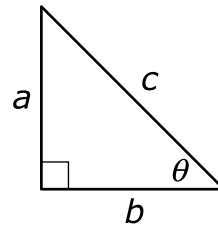
VOLUME (V) FORMULAS

- cube $V = s^3$
 (s = length of an edge)
 prism $V = Bh$
 cylinder $V = \pi r^2h$
 cone $V = \frac{1}{3}\pi r^2h$
 pyramid $V = \frac{1}{3}Bh$
 sphere $V = \frac{4}{3}\pi r^3$

CIRCLE FORMULAS

- pi $\pi \approx 3.14$
 circumference $C = 2\pi r$ OR $C = \pi d$
 area $A = \pi r^2$

RIGHT TRIANGLES



- Pythagorean Theorem
 $a^2 + b^2 = c^2$
 Trigonometric Ratios
 $\sin \theta = \frac{a}{c}$
 $\cos \theta = \frac{b}{c}$
 $\tan \theta = \frac{a}{b}$

SPECIAL RIGHT TRIANGLES

