

MEASUREMENTS

1 meter = 100 centimeters
 1 kilometer = 1000 meters

 1 yard = 3 feet
 1 mile = 5280 feet
 1 hour = 60 minutes
 1 minute = 60 seconds

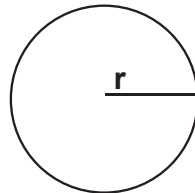
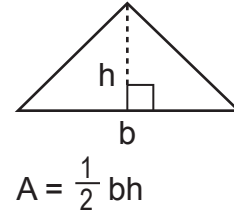
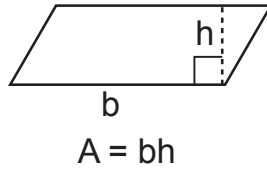
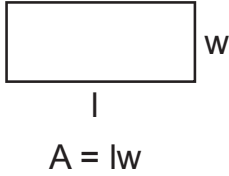
1 gram = 1000 milligrams
 1 kilogram = 1000 grams

 1 pound = 16 ounces
 1 ton = 2000 pounds

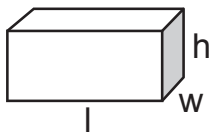
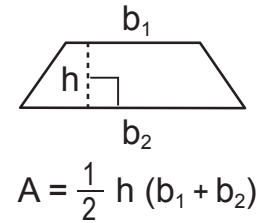
1 liter = 1000 cubic centimeters

 1 cup = 8 fluid ounces
 1 pint = 2 cups
 1 quart = 2 pints
 1 gallon = 4 quarts

AREA (A)



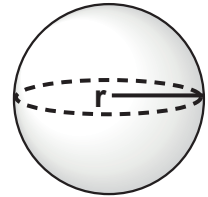
Length of an arc = $\frac{m}{360} \times 2 \pi r$



$V = lwh$
 $SA = 2 (lw + wh + lh)$

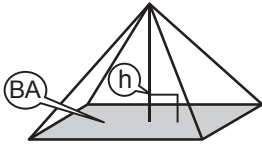


$V = \pi r^2 h$
 $SA = 2 \pi r h + 2 \pi r^2$



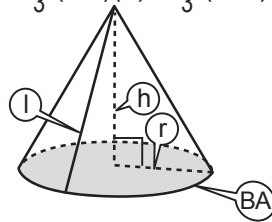
$V = \frac{4}{3} \pi r^3$
 $SA = 4 \pi r^2$

SURFACE AREA (SA) and VOLUME (V)

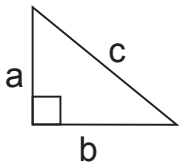


$V = \frac{1}{3} (BA)(h)$
 $SA = (LA) + (BA)$
 LA = lateral area
 BA = Base Area

$V = \frac{1}{3} (BA)(h) = \frac{1}{3} (\pi r^2)(h)$

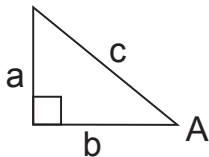
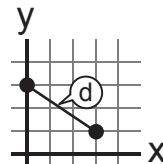


$SA = LA + BA = (\pi r l) + (\pi r^2)$

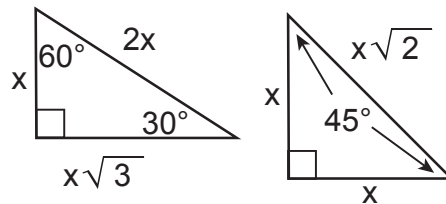


$a^2 + b^2 = c^2$

$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$



$\sin A = \frac{a}{c}$
 $\cos A = \frac{b}{c}$
 $\tan A = \frac{a}{b}$



Special Triangles

Quadratic Formula

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$