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

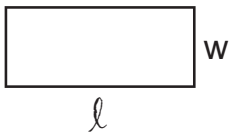
1 gram = 1000 milligrams
1 kilogram = 1000 grams

1 pound = 16 ounces
1 ton = 2000 pounds

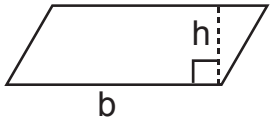
1 liter = 1000 cubic centimeters

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

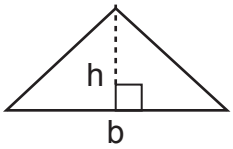
AREA (A)



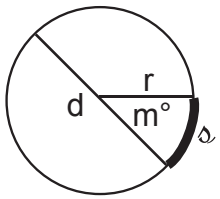
$A = \ell w$



$A = bh$



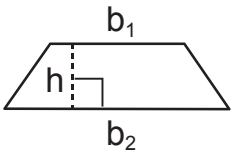
$A = \frac{1}{2} bh$



$A = \pi r^2$

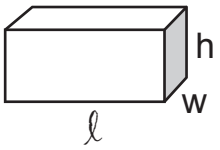
$C = 2\pi r = \pi d$

Arc Length: $s = \left(\frac{m}{360}\right) 2\pi r$



$A = \frac{1}{2} h (b_1 + b_2)$

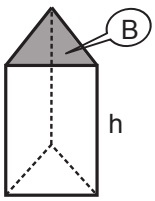
SURFACE AREA (SA) and VOLUME (V)



$SA = 2(\ell w + wh + \ell h)$

$V = \ell wh = Bh$

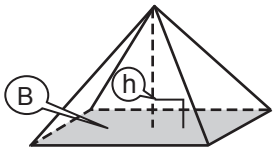
B = Area of Base



SA = Sum of Areas of all faces

$V = Bh$

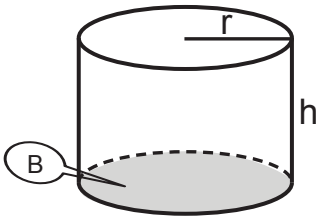
B = Area of Base



SA = Sum of Areas of all faces

$V = \frac{1}{3} Bh$

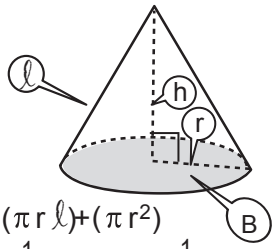
B = Area of Base



$SA = 2\pi rh + 2\pi r^2$

$V = \pi r^2 h = Bh$

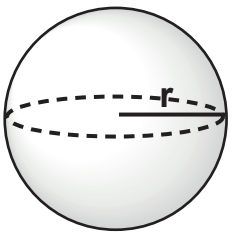
B = Area of Base



$SA = (\pi r \ell) + (\pi r^2)$

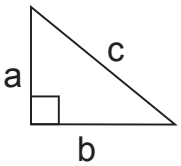
$V = (\frac{1}{3} \pi r^2)(h) = \frac{1}{3} Bh$

B = Area of Base

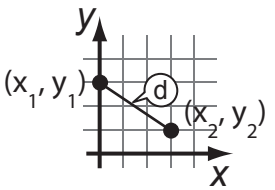


$SA = 4\pi r^2$

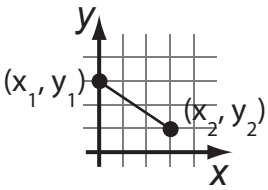
$V = \frac{4}{3} \pi r^3$



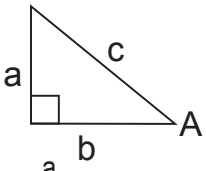
$a^2 + b^2 = c^2$



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

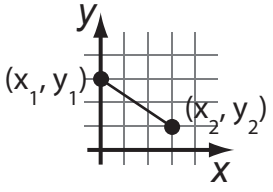


$\text{Midpoint} = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$



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

$\cos A = \frac{b}{c}$



Slope: $m = \frac{y_2 - y_1}{x_2 - x_1}$