



## Mathematics Table

<b>LENGTH</b>	
<b>Metric</b>	<b>Customary</b>
1 kilometer = 1000 meters	1 mile = 1760 yards
1 meter = 100 centimeters	1 mile = 5280 feet
1 centimeter = 10 millimeters	1 yard = 3 feet
	1 foot = 12 inches

  

<b>CAPACITY &amp; VOLUME</b>	
<b>Metric</b>	<b>Customary</b>
1 liter = 1000 milliliters	1 gallon = 4 quarts
	1 gallon = 128 ounces
	1 quart = 2 pints
	1 pint = 2 cups
	1 cup = 8 ounces

  

<b>MASS AND WEIGHT</b>	
<b>Metric</b>	<b>Customary</b>
1 kilogram = 1000 grams	1 ton = 2000 pounds
1 gram = 1000 milligrams	1 pound = 16 ounces

  

<b>TIME</b>	
1 millenium = 1000 years	1 century = 100 years
1 decade = 10 years	1 year = 365 days
1 year = 12 months	1 year = 52 weeks
1 week = 7 days	1 day = 24 hours
1 hour = 60 minutes	1 minute = 60 seconds

<b>Perimeter</b>	rectangle	$P = 2l + 2w$ or $P = 2(l + w)$
	square	$P = 4s$
	triangle	$P = a + b + c$
<b>Circumference</b>	circle	$C = 2\pi r$ or $C = \pi d$
<b>Area</b>	rectangle	$A = lw$ or $A = bh$
	triangle	$A = \frac{1}{2}bh$ or $A = \frac{bh}{2}$
	trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$ or $A = \frac{(b_1 + b_2)h}{2}$
<b>Surface Area</b>	rectangular solid	$S = 2lw + 2lh + 2wh$
	cube	$S = 6s^2$
	cylinder (lateral)	$S = 2\pi rh$
	cylinder (total)	$S = 2\pi rh + 2\pi r^2$
<b>Volume</b>	rectangular solid	$V = lwh$
	cube	$V = e^3$
	cone	$V = \frac{1}{3}\pi r^2 h$
	cylinder	$V = Bh$ (B = the area of the base)
	pyramid	$V = \frac{1}{3}Bh$ (B = the area of the base)
	sphere	$V = \frac{4}{3}\pi r^3$
<b>Pi</b>	$\pi$	$\pi \approx 3.14$ or $\pi \approx \frac{22}{7}$
<b>Distance</b>		$D = rt$
<b>Pythagorean Theorem</b>		$a^2 + b^2 = c^2$
<b>Slope of a Line</b>		$m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$
<b>Simple Interest Formula</b>		$I = prt$

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