

Resource Sheet Grade 8

Standard Conversions	Metric Conversions	Time Conversions
1 mile = 5,280 feet	1 kilometer = 1,000 meters	1 week = 7 days
1 yard = 3 feet	1 meter = 100 centimeters	1 day = 24 hours
1 foot = 12 inches	1 centimeter = 10 millimeters	1 hour = 60 minutes
1 ton = 2,000 pounds	1 kilogram = 1,000 grams	1 minute = 60 seconds
1 pound = 16 ounces	1 liter = 1,000 milliliters	
1 gallon = 4 quarts		
1 quart = 2 pints		
1 pint = 2 cups		
1 cup = 8 fluid ounces		

Formulas

Parallelogram	$A = bh$	Rectangle	$A = lw$
Square	$A = s^2$	Triangle	$A = \frac{1}{2}bh$
Trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$	Cube	$V = s^3$
Prism	$V = Bh$ $S.A. = 2B + Ph$	Cylinder	$V = Bh$ $S.A. = 2B + Ph$

Formulas, continued

Circle	$C = 2\pi r \text{ or } C = \pi d$ $A = \pi r^2$	Sphere	$V = \frac{4}{3}\pi r^3$ $\text{S.A.} = 4\pi r^2$
Arc Length	$s = 2\pi r \left(\frac{\theta}{360} \right)$	Sector Area	$A = \pi r^2 \left(\frac{\theta}{360} \right)$
Cone	$V = \frac{1}{3}Bh$ $\text{S.A.} = B + \frac{1}{2}Pl$	Pyramid	$V = \frac{1}{3}Bh$ $\text{S.A.} = B + \frac{1}{2}Pl$
Pythagorean Theorem	$a^2 + b^2 = c^2$	Slope	$m = \frac{y_2 - y_1}{x_2 - x_1}$
Slope-Intercept Form	$y = mx + b$		