Grade 8 Mathematics Reference Sheet

CONVERSIONS

1 yard = 3 feet 1 mile = 5,280 feet 1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 pound = 16 ounces 1 ton = 2,000 pounds

CONVERSIONS ACROSS MEASUREMENT SYSTEMS

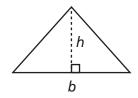
1 inch = 2.54 centimeters 1 meter = 39.37 inches 1 mile = 1.609 kilometers

1 kilometer = 0.6214 mile

1 gallon = 3.785 liters 1 liter = 0.2642 gallon 1 pound = 0.454 kilogram 1 kilogram = 2.2 pounds

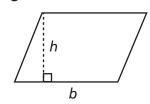
FORMULAS AND FIGURES

Triangle



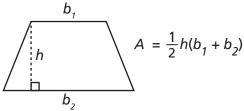
$$A = \frac{1}{2}bh$$

Parallelogram

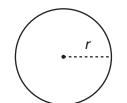


$$A = bh$$

Trapezoid



Circle



$$C = 2\pi r$$

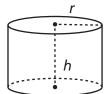
$$C = \pi d$$

$$A = \pi r^2$$

General Prism

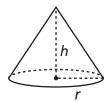
V = Bh

Right Cylinder



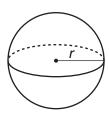
$$V = \pi r^2 h$$

Right Cone



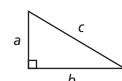
$$V = \frac{1}{3}\pi r^2 h$$

Sphere



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

Pythagorean Theorem



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