

Mathematics Reference Sheet

Conversions

U.S. Customary

1 foot = 12 inches
 1 yard = 3 feet
 1 mile = 5280 feet
 1 acre \approx 43,560 square feet
 1 cup = 8 fluid ounces
 1 pint = 2 cups
 1 quart = 2 pints
 1 gallon = 4 quarts
 1 gallon = 231 cubic inches
 1 pound = 16 ounces
 1 ton = 2000 pounds
 1 cubic foot \approx 7.5 gallons

U.S. Customary to Metric

1 inch \approx 2.54 centimeters
 1 foot \approx 0.3 meter
 1 mile \approx 1.6 kilometers
 1 quart \approx 0.95 liter
 1 gallon \approx 3.79 liters
 1 cup \approx 237 milliliters
 1 pound \approx 0.45 kilogram
 1 ounce \approx 28.3 grams
 1 gallon \approx 3785 cubic centimeters

Time

1 minute = 60 seconds
 1 hour = 60 minutes
 1 hour = 3600 seconds
 1 year = 52 weeks

Temperature

$$C = \frac{5}{9}(F - 32)$$

$$F = \frac{9}{5}C + 32$$

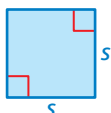
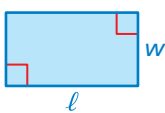
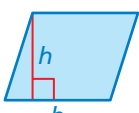
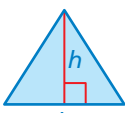
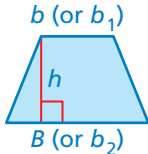
Metric

1 centimeter = 10 millimeters
 1 meter = 100 centimeters
 1 kilometer = 1000 meters
 1 liter = 1000 milliliters
 1 kiloliter = 1000 liters
 1 milliliter = 1 cubic centimeter
 1 liter = 1000 cubic centimeters
 1 cubic millimeter = 0.001 milliliter
 1 gram = 1000 milligrams
 1 kilogram = 1000 grams

Metric to U.S. Customary

1 centimeter \approx 0.39 inch
 1 meter \approx 3.28 feet
 1 kilometer \approx 0.6 mile
 1 liter \approx 1.06 quarts
 1 liter \approx 0.26 gallon
 1 kilogram \approx 2.2 pounds
 1 gram \approx 0.035 ounce
 1 cubic meter \approx 264 gallon

Perimeter and Area

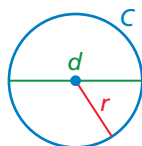
Square	Rectangle	Parallelogram	Triangle	Trapezoid
				
$P = 4s$ $A = s^2$	$P = 2\ell + 2w$ $A = \ell w$	$A = bh$	$A = \frac{1}{2}bh$	$A = \frac{1}{2}h(b + B)$ $A = \frac{1}{2}h(b_1 + b_2)$

Circumference and Area of a Circle

$$C = \pi d \text{ or } C = 2\pi r$$

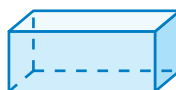
$$A = \pi r^2$$

$$\pi \approx \frac{22}{7}, \text{ or } 3.14$$



Surface Area and Volume

Rectangular Prism



$$S = 2\ell w + 2\ell h + 2wh$$

$$V = \ell wh$$