

MATH 015 Units of Measurements and Formulas

Customary Units

Weight

1 pound = 16 ounces
1 ton = 2000 pounds

Length

1 mile = 5280 feet

Capacity

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

Converting Between Customary and Metric Units

1 inch	= 2.54 centimeters
1 meter	≈ 3.28 feet
1 meter	≈ 1.09 yards
1 mile	≈ 1.61 kilometer
1 ounce	≈ 28.35 grams
1 pound	≈ 454 grams
1 kilogram	≈ 2.2 pound
1 liter	≈ 1.06 quarts
1 gallon	≈ 3.79 liters

Temperature

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

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

Metric Units

Metric Length
meter (m)

Metric Capacity
liter (L)

Metric Mass
gram (g)

kilo	hecto	deka	Unit	deci	centi	milli
k	h	da		d	c	m

$$C = 2\pi r$$

$$A = \pi r^2$$

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

$$V = lwh$$

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

$$Ax + By = C$$

$$y = m x + b$$

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

$$y - y_1 = m(x - x_1)$$

Pythagorean Theorem: $a^2 + b^2 = c^2$