

Symbols and Tables

PERIMETER

Add the lengths of all the sides.

AREA

rectangle, square = bh (base times height)

triangle = $1/2 bh$

circle = πr^2

SURFACE AREA

Add the area of each face.

VOLUME

rectangular solid = area of base (B) x h

cylinder = area of base (B) x h

pyramid and cone = $1/3$ area of base (B) x h

TEMPERATURE

freezing point of water = 0°C or 32°F

normal body temperature = 37°C

or 98.6°F

boiling point of water = 100°C

or 212°F

Celsius to Fahrenheit

$$(C \times 9/5) + 32^{\circ} = F$$

Fahrenheit to Celsius

$$(F - 32^{\circ}) \times 5/9 = C$$

PYTHAGOREAN THEOREM

$$\text{leg}^2 + \text{leg}^2 = \text{hypotenuse}^2$$

U.S. CUSTOMARY MEASURE

3 teaspoons (tsp) = 1 tablespoon (Tbsp)

2 pints (pt) = 1 quart (qt)

8 pints = 1 gallon (gal)

4 quarts = 1 gallon

12 inches (in) = 1 foot (ft) or $12'' = 1'$

3 feet or 36 in = 1 yard (yd)

5,280 feet = 1 mile (mi)

16 ounces (oz) = 1 pound (lb)

2,000 pounds = 1 ton

METRIC TO U.S. CUSTOMARY

1 meter (39.37'') \approx 1.1 yards

1 centimeter \approx 0.4 inches

1 liter \approx 1.06 quarts

1 kilogram \approx 2.2 pounds

1 kilometer \approx 0.6 miles

1 liter \approx 1.06 quarts

METRIC MEASURE

1,000 millimeters (mm) = 1 meter (m)

100 centimeters (cm) = 1 meter

10 decimeters (dm) = 1 meter

10 meters = 1 dekameter (dam)

100 meters = 1 hectometer (hm)

1,000 meters = 1 kilometer (km)



Replace meter with liter or gram
for volume and weight equivalents.

U.S. CUSTOMARY TO METRIC

1 inch = 2.54 centimeters

1 ounce \approx 28 grams

SYMBOLS

$=$	equals
\neq	is not equal to
\sim	similar
\approx	approximately equals
$<$	less than
$>$	greater than
\pm	plus or minus
$ \quad $	absolute value
$\%$	percent
π	pi (commonly rounded to 22/7 or 3.14)
r^2	r squared or $r \cdot r$
$\sqrt{\quad}$	square root
∞	infinity
\leftrightarrow	line
\cdot	point
\rightarrow	ray
\angle	angle
	plane
	right angle