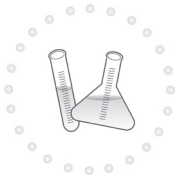

WEIGHTS AND MEASURES

ENGLISH

Area

1 square foot (ft²) ---------- *144 square inches (in²)*
1 square yard (yd²) ---------- *9 square feet*
1 acre ---------- *43,560 square feet*
1 square mile (mi²) ---------- *640 acres*

Capacity

1 cup (c) ---------- *8 fluid ounces (fl oz)*
1 pint (pt) ---------- *2 cups*
1 quart (qt) ---------- *2 pints*
1 quart ---------- *4 cups*
1 gallon (gal) ---------- *4 quarts*

Length

1 foot (ft) ---------- *12 inches (in)*
1 yard (yd) ---------- *36 inches*
1 yard ---------- *3 feet*
1 mile (mi) ---------- *2*
1 mile ---------- *6*

Time

1 minute (min) ---------- *60 seconds (s)*
1 hour (h) ---------- *60 minutes*
1 day (d) ---------- *24 hours*
1 week (wk) ---------- *7 days*
1 year (yr) ---------- *12 months (mo)*
1 year ---------- *52 weeks*
1 year ---------- *365 days*
1 century (c) ---------- *100 years*

Weight

1 pound (lb) ---------- *16 ounces (oz)*
1 short ton (T) ---------- *2,000 pounds*

METRIC

Area

1 sq centimeter (cm²) ---------- *100 sq millimeters (mm²)*
1 sq meter (m²) ---------- *10,000 sq centimeters*
1 hectare (ha) ---------- *10,000 square meters*
1 sq kilometer (km²) ---------- *1,000,000 sq meters*

Capacity

1 milliliter (ml) ---------- *.001 liter (L)*
1 centiliter (cl) ---------- *.01 liter*
1 deciliter (dl) ---------- *.1 liter*
1 dekaliter (dal) ---------- *10 liters*
1 hectoliter (hl) ---------- *100 liters*
1 kiloliter (kl) ---------- *1,000 liters*

Length

1 millimeter (mm) ---------- *.001 meter (m)*
1 centimeter (cm) ---------- *.01 meter*
1 decimeter (dm) ---------- *.1 meter*
1 dekameter (dam) ---------- *10 meters*
1 hectometer (hm) ---------- *100 meters*
1 kilometer (km) ---------- *1,000 meters*

Mass/Weight

1 milligram (mg) ---------- *.001 gram (g)*
1 centigram (cg) ---------- *.01 gram*
1 decigram (dg) ---------- *.1 gram*
1 dekagram (dag) ---------- *10 grams*
1 hectogram (hg) ---------- *100 grams*
1 kilogram (kg) ---------- *1,000 grams*
1 metric ton (t) ---------- *1,000 kilograms*

FORMULAS

Perimeter of a rectangle ---------- $P = 2(l+w)$
Perimeter of a square ---------- $P = 4s$
Perimeter of a regular polygon ---------- $P = ns$
(n = number of sides)
Area of a rectangle ---------- $A = lw$
Area of a square ---------- $A = s^2$
Area of a parallelogram ---------- $A = bh$
Area of a triangle ---------- $A = \frac{1}{2}bh$
Area of a trapezoid ---------- $A = \frac{1}{2}h(b_1 + b_2)$
Area of a circle ---------- $A = \pi r^2$
Circumference of a circle ---------- $C = \pi d$, *or* $2\pi r$
Volume of a rectangular prism ---------- $V = lwh$
Volume of any prism ---------- $V = Bh$
Volume of a cylinder ---------- $V = \pi r^2 h$
Volume of a pyramid ---------- $V = \frac{1}{3}Bh$
Volume of a cone ---------- $V = \frac{1}{3}\pi r^2 h$
Surface area of a cylinder ---------- $SA = 2\pi r^2 + 2\pi rh$
Pythagorean Theorem ---------- $a^2 + b^2 = c^2$
(sides of a right triangle)

Simple interest ---------- $I = prt$
Distance ---------- $d = rt$

FORMULA KEY

A = *area*
b = *base,* length of any side of a plane figure
B = *area of base*
d = *diameter*
h = *height,* perpendicular distance from the furthest point of the figure to the extended base
l = *length*
P = *perimeter*
r = *radius*
s = *side*
sa = *surface area*
V = *volume*
w = *width*

I = *interest,* p = *principal,* r = *rate,* t = *time*
d = *distance,* r = *rate,* t = *time*