



## WEIGHTS AND MEASURES

### ENGLISH

#### Area

1 square foot (ft <sup>2</sup> )	-----	144 square inches (in <sup>2</sup> )
1 square yard (yd <sup>2</sup> )	-----	9 square feet
1 acre	-----	43,560 square feet
1 square mile (mi <sup>2</sup> )	-----	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)	-----	5,280 feet
1 mile	-----	1,600 yards

#### 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 (cm <sup>2</sup> )	---	100 sq millimeters (mm <sup>2</sup> )
1 sq meter (m <sup>2</sup> )	-----	10,000 sq centimeters
1 hectare (ha)	-----	10,000 square meters
1 sq kilometer (km <sup>2</sup> )	-----	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 dekaliter (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

# REVIEW ONLY

## School Datebooks

# DO NOT SUBMIT

# FOR PRINT

### 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	-----	$A = \frac{1}{2}b(b_1 + b_2)$
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	-----	$V = \pi r^2h$
Volume of a pyramid	-----	$V = \frac{1}{3}Bh$
Volume of a cone	-----	$V = \frac{1}{3}\pi r^2h$
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)

### 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

Simple interest -----  $I = prt$

$I$  = interest,  $p$  = principal,  $r$  = rate,  $t$  = time

Distance -----  $d = rt$

$d$  = distance,  $r$  = rate,  $t$  = time