

Mathematical Symbols

=	is equal to	·	decimal point	\overleftrightarrow{AB}	line AB
≠	is not equal to	°	degree	\overline{AB}	line segment AB
<	is less than	+	plus	\overrightarrow{AB}	ray AB
>	is greater than	−	minus	$\angle ABC$	angle ABC
≈	is approximately equal to	×	times	ABC	plane ABC
...	continues without end	÷	divided by	~	is similar to
%	percent	$P(E)$	probability of an event	≅	is congruent to
2:3	two to three (ratio)	cm^2	square centimeter		is parallel to
\$	dollars	in.^3	cubic inch	⊥	is perpendicular to
¢	cents			(3, 4)	ordered pair

Table of Measures

Time

60 seconds (s)	= 1 minute (min)	12 months (mo)	= 1 year (y)
60 minutes	= 1 hour (h)	52 weeks	= 1 year
24 hours	= 1 day (d)	365 days	= 1 year
7 days	= 1 week (wk)	100 years	= 1 century (cent.)

Metric Units

Length

10 millimeters (mm)	= 1 centimeter (cm)
100 centimeters	= 1 meter (m)
10 centimeters	= 1 decimeter (dm)
10 decimeters	= 1 meter
1000 meters	= 1 kilometer (km)

Capacity

10 milliliters (mL)	= 1 centiliter (cL)
100 centiliters	= 1 liter (L)
10 centiliters	= 1 deciliter (dL)
10 deciliters	= 1 liter
1000 liters	= 1 kiloliter (kL)

Mass

10 milligrams (mg)	= 1 centigram (cg)	10 decigrams	= 1 gram
100 centigrams	= 1 gram (g)	1000 grams	= 1 kilogram (kg)
10 centigrams	= 1 decigram (dg)	1000 kilograms	= 1 metric ton (t)

Customary Units

Length

12 inches (in.)	= 1 foot (ft)
3 feet	= 1 yard (yd)
36 inches	= 1 yard
5280 feet	= 1 mile (mi)
1760 yards	= 1 mile

Capacity

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

Weight

16 ounces (oz)	= 1 pound (lb)
2000 pounds	= 1 ton (T)

Geometric Formulas

Perimeter

$$\text{Rectangle: } P = (2 \times \ell) + (2 \times w)$$

$$\text{Square: } P = 4 \times s$$

Area

$$\text{Rectangle: } A = \ell \times w$$

$$\text{Square: } A = s \times s = s^2$$

$$\text{Parallelogram: } A = b \times h$$

$$\text{Triangle: } A = \frac{1}{2} \times b \times h$$

Circumference of Circle

$$C = \pi \times d = \pi \times 2 \times r$$

Surface Area

Rectangular Prism:

$$S = 2 \times (\ell \times w) + 2 \times (\ell \times h) + 2 \times (w \times h)$$

$$\text{Cube: } S = 6 \times e \times e = 6 \times e^2$$

Volume

$$\text{Rectangular Prism: } V = \ell \times w \times h$$

$$\text{Cube: } V = e \times e \times e = e^3$$

Other Formulas

$$\text{Distance} = \text{Rate} \times \text{Time: } d = r \times t$$

$$\text{Discount} = \text{List Price} \times \text{Rate of Discount: } D = LP \times R \text{ of } D$$

$$\text{Sale Price} = \text{Regular Price} - \text{Discount: } SP = RP - D$$

$$\text{Sales Tax} = \text{Marked Price} \times \text{Rate of Sales Tax: } T = MP \times R \text{ of } T$$

Percent Table

$$10\% = \frac{1}{10} = 0.1$$

$$70\% = \frac{7}{10} = 0.7$$

$$4\% = \frac{1}{25} = 0.04$$

$$20\% = \frac{1}{5} = 0.2$$

$$80\% = \frac{4}{5} = 0.8$$

$$5\% = \frac{1}{20} = 0.05$$

$$30\% = \frac{3}{10} = 0.3$$

$$90\% = \frac{9}{10} = 0.9$$

$$25\% = \frac{1}{4} = 0.25$$

$$40\% = \frac{2}{5} = 0.4$$

$$1\% = \frac{1}{100} = 0.01$$

$$50\% = \frac{1}{2} = 0.5$$

$$60\% = \frac{3}{5} = 0.6$$

$$2\% = \frac{1}{50} = 0.02$$

$$75\% = \frac{3}{4} = 0.75$$