MATHEMATICAL SYMBOLS, ABBREVIATIONS, AND FORMULAS

Definitions

+	add	>	is greater than	$\angle$	right angle
–	subtract	<	is less than	$\overline{AB}$	line segment AB
•	multiply	$\geq$	is greater than or equal to	$\overleftrightarrow{AB}$	line AB
÷	divide	$\leq$	is less than or equal to	AB	length of $\overline{AB}$
=	is equal to	π	≈ 3.14	$\frac{a}{b}$ or $a : b$	ratio of a to b
$\neq$	is not equal to	$\angle$	angle		

Abbreviations for Units of Measurement

U.S. Customary

Distance	in.	inch
	ft.	foot
	mi.	mile
Volume	gal.	gallon
	qt.	quart
	oz.	fluid ounce
Weight	lb.	pound
	oz.	ounce
Temperature	°F	degree Fahrenheit
Speed	mph	miles per hour

Metric System

Distance	m	meter
	km	kilometer
	cm	centimeter
	mm	millimeter
Volume	L	liter
	ml or mL	milliliter
	cm^3 or cc	cubic centimeter
Mass	g	gram
	kg	kilogram
	mg	milligram
Temperature	°C	degree Celsius

Time	sec.	second
	min.	minute
	hr.	hour

Conversions for Units of Measurement

U.S. Customary

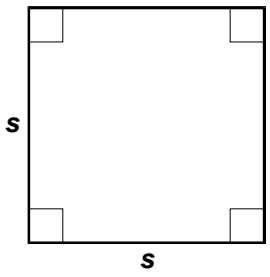
Length	12 inches = 1 foot 3 feet = 1 yard 5280 feet = 1 mile
Volume (liquid)	8 ounces = 1 cup 2 cups = 1 pint 2 pints = 1 quart 4 quarts = 1 gallon
Weight	16 ounces = 1 pound 2000 pounds = 1 ton

Metric System

Length	10 millimeters = 1 centimeter 100 centimeters = 1 meter 1000 meters = 1 kilometer
Volume	1000 milliliters = 1 liter 1000 liters = 1 kiloliter
Weight	1000 milligrams = 1 gram 1000 grams = 1 kilogram

Geometric Figures

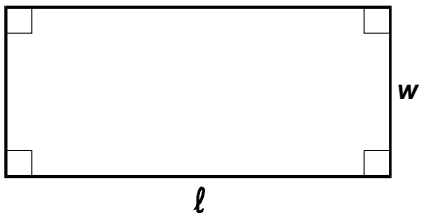
Square



Area = s^2

Perimeter = $4s$

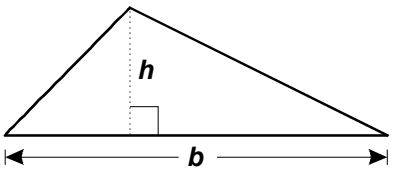
Rectangle



Area = ℓw

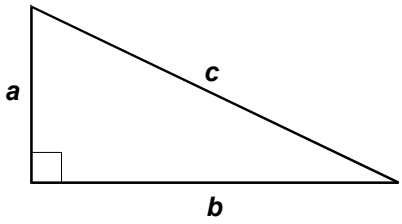
Perimeter = $2\ell + 2w$

Triangle



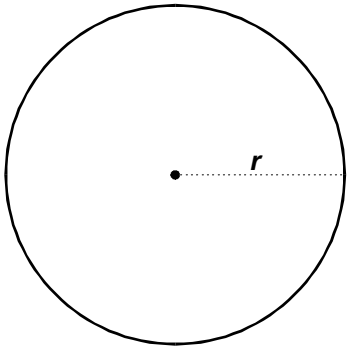
Area = $\frac{1}{2}bh$

Right triangle



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

Circle

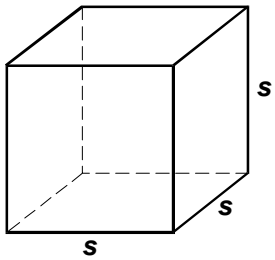


Area = πr^2

Circumference = $2\pi r$

Diameter = $2r$

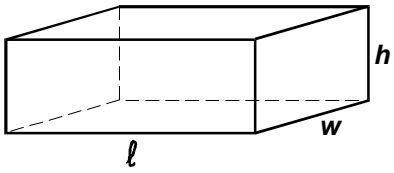
Cube



Surface area = $6s^2$

Volume = s^3

Rectangular solid



Surface area = $2\ell w + 2\ell h + 2wh$

Volume = ℓwh