Mathematics Chart

LENGTH	
Metric	**Customary**
1 meter (m) = 100 centimeters (cm)	1 foot (ft) = 12 inches (in.)
1 centimeter (cm) = 10 millimeters (mm)	1 yard (yd) = 3 feet (ft)
1 kilometer (km) = 1000 meters (m)	1 yard (yd) = 36 inches (in.)
1 meter (m) = 1000 millimeters (mm)	1 mile (mi) = 5280 feet (ft)
Metric/Customary	
2.54 centimeters (cm) = 1 inch (in)	
1 meter (m) = 1.09 yards (yd)	
1.61 kilometers km) = 1 mile (mi)	
CAPACITY AND VOLUME	
Metric	**Customary**
1 liter (L) = 1000 milliliters (mL)	1 cup (c) = 8 fluid ounces (fl. oz.)
1 cubic centimeter (cc or cm^3) = 1 milliliter (mL)	1 pint (pt) = 2 cups (c)
	1 quart (qt) = 2 pints (pt)
	1 gallon (gal) = 128 fluid ounces (fl. oz.)
	1 gallon (gal) = 4 quarts (qt)
Metric/Customary	
3.785 liters (L) = 1 gallon (gal)	
MASS AND WEIGHT	
Metric	**Customary**
1 kilogram (kg) = 1000 grams (g)	1 pound (lb) = 16 ounces (oz)
1 gram (g) = 1000 milligrams (mg)	1 ton (T) = 2000 pounds (lb)
Metric/Customary	
1 kilograms (kg) = 2.205 pounds (lb)	

TIME
1 minute (min) = 60 seconds (sec)
1 hour (hr) = 60 minutes (min)
1 day = 24 hours (hr)
1 week = 7 days
1 year (yr) = 52 weeks
1 year (yr) = 12 months (mo)
1 year (yr) = 365 days

Formula Chart Mathematics Chart

OTHER		
Simple Interest Formula	$II = ppppp$	
Perimeter	Triangle	$PP = aa + bb + cc$
	Rectangle	$PP = 2ll + 2ww$ or $PP = 2(ll + ww)$
Circumference	Circle	$CC = 2\pi\pi pp$ or $CC = \pi\pi\pi\pi$
Area	Rectangle	$AA = llww$
	Parallelogram	$AA = bbh$
	Triangle	$AA = \frac{1}{2}bbh$
	Trapezoid	$AA = \frac{1}{2}(bb_1 + bb_2)h$
	Circle	$AA = \pi\pi pp^2$
Volume	Rectangular prism	$VV = llwwh$
Pythagorean Theorem	$aa^2 + bb^2 = cc^2$	

Formulas concerning distance	$DD = pppp$ $pp = \frac{DD}{tt}$ $pp = \frac{DD}{rr}$
Formulas concerning temperature	$FF = \frac{9}{5}CC + 32$ $CC = \frac{5}{9}(FF - 32)$
Variation	**Direct**: $yy = kkkk$ **Inverse**: $yy = \frac{kk}{xx}$
Quadratic Formula	$kk = \frac{-bb \pm \sqrt{bb^2 - 4aacc}}{2aa}$
Vertex Formula	$\frac{bb}{2aa}, ff - \frac{bb}{2aa}$
Slope Formula	$mm = \frac{yy_2 - yy_1}{kk_1}$ $kk_2 -$
Slope-Intercept Form of an Equation	$yy = mmkk + bb$
Point-Slope Form of an Equation	$yy - yy_1 = mm(kk - kk_1)$
Standard Form of an Equation	$AAkk + BByy = CC$

Mathematics Chart

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Metric/Customary 2.54 centimeters (cm) = 1 inch (in) 1 meter (m) = 1.09 yards (yd) 1.61 kilometers (km) = 1 mile (mi) **Metric Customary** 1 liter (L) = 1000 milliliters (mL) 1 cup (c) = 8 fluid ounces (fl. oz.) 1 cubic centimeter (cc or cm^3) = 1 milliliter (mL) 1 pint (pt) = 2 cups (c)

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Mathematics Chart

Simple Interest Formula $I = prt$

Perimeter

Triangle $P = a + b + c$

Rectangle $P = 2l + 2w$ or

$P = 2(l + w)$

Circumference Circle $C = 2\pi r$ or

$C = \pi d$

Area

Rectangle $A = lw$

Parallelogram $A = bh$

Triangle $A = \frac{1}{2}bh$

Trapezoid $A = \frac{1}{2}(b_1 + b_2)h$

Circle $A = \pi r^2$

Volume Rectangular prism $V = lwh$

Pythagorean Theorem $a^2 + b^2 = c^2$

Formulas concerning distance $D = rt$ $r = \frac{D}{t}$ $t = \frac{D}{r}$ **Formulas concerning temperature** $F = \frac{9}{5}C + 32$ $C = \frac{5}{9}(F - 32)$ **Variation** **Direct**: $y = kx$ **Inverse**: $y = \frac{k}{x}$

Quadratic Formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Vertex Formula $(-\frac{b}{2a}, f(-\frac{b}{2a}))$

Slope Formula $m = \frac{y_{x_2 2} - y_{1 x_1}}{}$

Slope-Intercept Form of an Equation $y = mx + b$

Point-Slope Form of an Equation $y - y_1 = m(x - x_1)$

Standard Form of an Equation $Ax + By = C$