



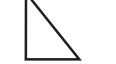



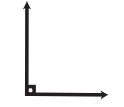


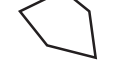
















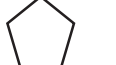


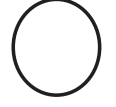







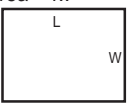
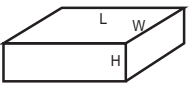
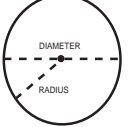

 LINE	 RAY	 LINE SEGMENT	 LINE OF SYMMETRY	 SCALED TRIANGLE	 RIGHT TRIANGLE	 ISOSCELES TRIANGLE	 EQUILATERAL TRIANGLE
 PARALLEL LINES	 RIGHT ANGLE	 ANGLE	 FULL CIRCLE 360°	 POLYGON	 QUADRILATERAL	 PARALLELOGRAM	 TRAPEZOID
 SUPPLEMENTARY ANGLES	 OBTUSE ANGLE	 ACUTE ANGLE	 STRAIGHT ANGLE	 RECTANGLE	 RHOMBUS	 SQUARE	 HEXAGON
 COMPLEMENTARY ANGLES	 ARC	 SEMI CIRCLE	 ELIPSE	 OCTAGON	 PENTAGON	 RECTANGULAR PRISM	 CUBE
 CIRCLE	 RADIUS	 DIAMETER	 CHORD	 TRIANGULAR PRISM	 TRIANGULAR PYRAMID	 RECTANGULAR PYRAMID	 CYLINDER

Perimeter + 2(l + w)
Area = lw


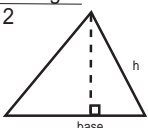
Volume = lwh
Surface Area = 2(lh + lw + hw)

Circumference of a circle = 2pr
Area of a circle = pr²

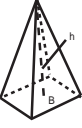

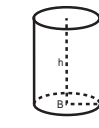



Surface area of a sphere = 4pr²
Volume of a sphere = $\frac{4pr^3}{3}$

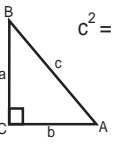
Area = $\frac{\text{base} \times \text{height}}{2}$

Volume of a pyramid = $\frac{Bh}{3}$
Volume of a cone = $\frac{Bh}{3}$
Surface Area of a cylinder = 2prh + 2pr²
Volume of a cylinder = pr²h

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



Volume of a pyramid = $\frac{Bh}{3}$
Volume of a cone = $\frac{Bh}{3}$
Surface Area of a cylinder = 2prh + 2pr²
Volume of a cylinder = pr²h

Prefix	Magnitude	Symbol	Meaning (multiply by)
Giga-	10 ⁹	G	1 000 000 000
Mega-	10 ⁶	M	1 000 000
kilo-	10 ³	k	1000
hecto-	10 ²	h	100
deka-	10	da	10
grams/liters/meters	-	-	-
deci-	10 ⁻¹	d	0.1
centi-	10 ⁻²	c	0.01
milli-	10 ⁻³	m	0.001
micro-	10 ⁻⁴	u (mu)	0.000 001

SPHERE	1 = 1.0 = 100%
1/2 = 0.5 = 50%	
1/3 = 0.3 = 33.3%	
1/4 = 0.25 = 25%	
1/5 = 0.2 = 20%	
1/6 = 0.16 = 16.6%	
1/8 = 0.125 = 12.5%	
1/9 = 0.1 = 11.1%	
1/10 = 0.1 = 10%	
1/12 = 0.083 = 8.3%	
2/3 = 0.6 = 66.6%	
3/4 = 0.75 = 75%	

$\frac{1}{4} - \text{numerator}$
 $4 - \text{denominator}$

To add or subtract different fractions, find a common denominator, then add the numerators.

$$\frac{1}{4} + \frac{2}{3} = \frac{3}{12} + \frac{8}{12} = \frac{11}{12}$$

To multiply:

$$\frac{1}{4} \times \frac{2}{3} = \frac{2}{12} = \frac{1}{6}$$

To divide, multiply the first fraction with the reciprocal of the second fraction

$$\frac{1}{4} \div \frac{2}{3} = \frac{1}{4} \times \frac{3}{2} = \frac{3}{8}$$

The things of this world cannot be made known without a knowledge of mathematics.
- Roger Bacon

Converting Units			
If you have:	Multiply by:	To get:	
cm	x 0.3937	→	in
in	x 2.54	→	cm
m	x 3.2808	→	ft
ft	x 0.3048	→	m
km	x 0.6214	→	mi
mi	x 1.609	→	km
g	x 0.0353	→	oz
oz	x 28.35	→	g
kg	x 2.2046	→	lbs
lbs	x 0.4536	→	kg
t	x 1.1023	→	T
T	x 0.9072	→	t
ml	x 0.0338	→	fl oz
fl oz	x 29.575	→	ml
L	x 0.2642	→	US gal
US gal	x 3.785	→	L

30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19 -20 -21 -22 -23 -24 -25 -26 -27 -28 -29 -30