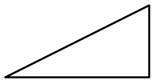
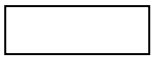
K–6 Mathematics Reference Sheet

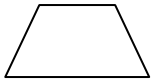
Area



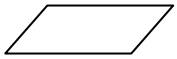
Triangle $A = \frac{1}{2}bh$



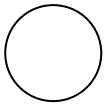
Rectangle $A = lw$



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



Parallelogram $A = bh$



Circle $A = \pi r^2$

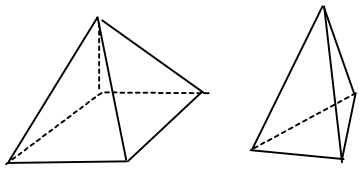
KEY	
b = base	d = diameter
h = height	r = radius
l = length	A = area
w = width	C = circumference
$S.A.$ = surface area	V = volume
	B = area of base
Use 3.14 or $\frac{22}{7}$ for π	

Circumference

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

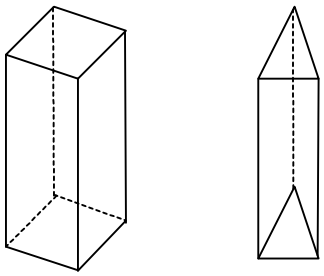
Surface Area

1. Surface area of a prism or pyramid equals the sum of the areas of all faces.



Volume

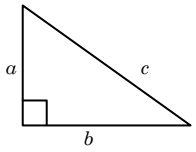
1. Volume of a triangular or rectangular prism equals the Area of the Base (B) times the height (h).
   $V = Bh$



2. Volume of a pyramid equals $\frac{1}{3}$ times the Area of the Base (B) times the height (h).

$$V = \frac{1}{3}Bh$$

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



Conversions

1 yard = 3 feet = 36 inches
1 mile = 1,760 yards = 5,280 feet
1 acre = 43,560 square feet
1 hour = 60 minutes
1 minute = 60 seconds

1 cup = 8 fluid ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts
1 pound = 16 ounces
1 ton = 2,000 pounds

1 liter = 1000 milliliters = 1000 cubic centimeters
1 meter = 100 centimeters = 1000 millimeters
1 kilometer = 1000 meters
1 gram = 1000 milligrams
1 kilogram = 1000 grams

Metric numbers with four digits are presented without a comma (e.g., 9960 kilometers). For metric numbers greater than four digits, a space is used instead of a comma (e.g., 12 500 liters).