Mathematics Reference Sheet



Surface Area

- 1. Surface area of a prism or pyramid equals the sum of the areas of all faces.
- 2. Surface area of a cylinder equals the sum of the areas of the bases and the area of its rectangular wrap.



3. Surface area of a sphere: S.A. = $4\pi r^2$

<u>Volume</u>

- 1. Volume of a prism or cylinder equals the <u>Area of the Base</u> (*B*) times the height (*h*). V = Bh
- 2. Volume of a pyramid or cone equals $\frac{1}{3}$ times the <u>Area of the Base</u> (*B*) times the height (*h*).

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

3. Volume of a sphere: $V = \frac{4}{3} \pi r^3$



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 liter = 1000 milliliters = 1000 cubic of 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

liter = 1000 milliliters = 1000 cubic centimeters
meter = 100 centimeters = 1000 millimeters
kilometer = 1000 meters
gram = 1000 milligrams
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).