Formula and Conversion Sheet

Area
1 square foot = 144 square inches
1 square yard = 9 square feet
1 acre = 43,560 square feet

Box (Rectangular Solid)
volume of a box = *length* × *width* × *height*

Circle
There are 360° in a circle.
circumference of circle ≈ 3.14 × *diameter*
area of circle ≈ 3.14 × (*radius*)^2

Cone
volume of cone ≈ $\dfrac{3.14 \times (radius)^2 \times height}{3}$

Cube
volume of cube = (*length of side*)^3

Cylinder
volume of cylinder ≈ 3.14 × (*radius*)^2 × *height*

Distance
1 inch = 2.54 centimeters
1 foot = 12 inches
1 foot = 0.3048 meters
1 meter = 1,000 millimeters
1 meter = 100 centimeters
1 yard = 3 feet
1 kilometer = 1,000 meters
1 kilometer ≈ 0.62 miles
1 mile = 5,280 feet
1 mile ≈ 1.61 kilometers

Electricity Conversion
The current in amps = power in DC watts ÷ volts
1 kilowatt-hour = 1,000 watt-hours

Rectangle
perimeter of rectangle = 2(*length* + *width*)
area of rectangle = *length* × *width*

Sphere, or Ball

volume of sphere $\approx \dfrac{4}{3} \times 3.14 \times (radius)^3$

Temperature Conversions

$°C = 0.56(°F − 32)$ or $\dfrac{5}{9}(°F − 32)$

$°F = 1.8(°C) + 32$ or $(\dfrac{9}{5} \times °C) + 32$

Triangle

sum of interior angles in a triangle = 180°

area of triangle $= \dfrac{1}{2}(base \times height)$

Volume

1 cup = 8 fluid ounces
1 quart = 4 cups
1 liter ≈ 0.264 gallons
1 gallon = 4 quarts
1 gallon = 231 cubic inches
1 cubic foot = 1,728 cubic inches
1 cubic yard = 27 cubic feet
1 board foot (lumber) = 12 inches × 12 inches × 1 inch

Weight

1 milligram = 0.001 grams
1 ounce ≈ 28.350 grams
1 pound = 16 ounces
1 pound ≈ 453.592 grams
1 kilogram = 1,000 grams
1 kilogram ≈ 2.2 pounds
1 ton = 2,000 pounds