Applied Math Formula Sheet

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

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

Volume
1 cup = 8 fluid ounces
1 quart = 4 cups
1 gallon = 4 quarts
1 gallon = 231 cubic inches
1 liter = 0.264 gallons
1 cubic foot = 1,728 cubic inches
1 cubic yard = 27 cubic feet
1 board foot = 1 inch by 12 inches by 12 inches

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

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

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

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

Triangle
sum of angles = 180°
area = $\frac{1}{2}$(*base* × *height*)

Circle
number of degrees in a circle = 360°
circumference = 3.14 × *diameter*
area = 3.14 × (*radius*)^2

Cylinder
volume = 3.14 × (*radius*)^2 × *height*

Cone
volume = $\frac{3.14 \times (radius)^2 \times height}{3}$

Sphere (Ball)
volume = $\frac{4}{3}$ × 3.14 × (*radius*)^3

Electricity
1 kilowatt-hour = 1,000 watt-hours
amps = watts ÷ volts

Temperature
°C = $\frac{5}{9}$(°F − 32)
°F = $\frac{9}{5}$(°C) + 32

NOTE: Problems on the ACT WorkKeys *Applied Math* assessment should be worked using the formulas and conversions on this formula sheet.

Applied Math

Edwin Henry Barton

Applied Math:

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