

# 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 =  $2(\text{length} + \text{width})$
- area =  $\text{length} \times \text{width}$

## Rectangular Solid (Box)

- volume =  $\text{length} \times \text{width} \times \text{height}$

## Cube

- volume =  $(\text{length of side})^3$

## Triangle

- sum of angles =  $180^\circ$
- area =  $\frac{1}{2}(\text{base} \times \text{height})$

## Circle

- number of degrees in a circle =  $360^\circ$
- circumference =  $3.14 \times \text{diameter}$
- area =  $3.14 \times (\text{radius})^2$

## Cylinder

- volume =  $3.14 \times (\text{radius})^2 \times \text{height}$

## Cone

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

## Sphere (Ball)

- volume =  $\frac{4}{3} \times 3.14 \times (\text{radius})^3$

## Electricity

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

## Temperature

$$^\circ\text{C} = \frac{5}{9}(^\circ\text{F} - 32)$$

$$^\circ\text{F} = \frac{9}{5}(^\circ\text{C}) + 32$$

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

# Applied Math

**K Morrison**



**Applied Math:**

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