

# 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

**N Colangelo**



**Applied Math:**

## **Applied Math** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Applied Math**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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