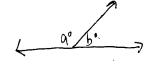
Geometry:

Complimentary Angles: Two angles that add up to 90°



 $\angle x + \angle y = 90^{\circ}$

Supplementary Angles: Two angles that add up to 180°



La + Lb = 1800

Circles: Area = π r²

Circumference = $2 \pi r$



$$A = \pi \cdot 3^2 = \pi \cdot 9 = 3.14 \cdot 9 = 28.26$$
 in

$$C = 2.11 \cdot 3 = 41 \cdot 6 = 3.14 \cdot 6 = 18.84 \text{ in}$$

Triangle: The inside angles of a triangle add up to 180°



Volume (prisms): V=Area of Base x Height



Area of
$$\Delta = 2 \cdot 3 \cdot 4 = 6$$
 Height $6 \cdot 5 = \overline{30 \text{ in } 3}$

Volume (cylinder): $V = \pi r^2 x$ Height

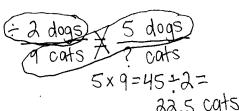


$$3 V = \pi \cdot 2^3 \cdot 3 = \pi \cdot 4 \cdot 3 = \boxed{2\pi \text{ in}^3}$$

Proportions/Percents

Proportions/Percents
Proportion: Two ratios that are equal:
$$\frac{3 \text{ apples}}{\$5} = \frac{9 \text{ apples}}{\$15}$$

Set Up: 1) Write the ratio you know 2) Line up third piece of info by units Solving: Multiply the numbers diagonally, divide by the third number



Percents:

$$\frac{0}{100} = \frac{15}{04}$$

$$\frac{100}{100} = \frac{15}{00}$$
 What is $\frac{20\%}{60}$ of 6?
 $\frac{80}{100} \times \frac{1}{6}$ $\frac{20\times6}{100} = 1.2$
 $\frac{100}{100} \times \frac{1}{6}$ $\frac{1}{6}$ \frac

Mean: The "average"—add together all numbers, divide by number of numbers

$$\{6, 3, 2, 5, 6, 2\}$$
 Mean = $\frac{24}{6} = 4$

Median: The "middle number" when the numbers are in order:

Mode: The number that occurs most often:

$$Mode = 3$$

Algebra

(1) x + 10 = 12

Solve for x: Use the opposite operations!
$$1 \times + 10 = 12$$
 $2 \times \times = 24$

Fractions Decimals Percent

Fraction Decimal: take the top number, divide it by the bottom number. $\frac{3}{4} = 4 \overline{\smash)3.00}$

Decimal → Percent: Move decimal to the right 2 places

Percent \rightarrow Fraction: Put your percent over 100, then simplify. $25 \div 25 = \frac{1}{4}$