

Problem Solving Strategies

- ◆ Use a known formula
 - Distance formula: $d=rt$
 - Percent formula: $p \cdot B = A$ or $\frac{p}{100} = \frac{A}{B}$
- ◆ Draw a diagram if you can
 - Very helpful with uniform motion problems
- ◆ 2 parts add up to a whole: part #1 + part #2 = whole
 - If $n =$ part #1, then:

$\text{whole} - n = \text{part \#2}$

Hints

- ◆ Do all your units match?
- ◆ What will my unknown (variable) be? Define your variable **first**. Reread what you've written in the Understanding part, and think about everything else in terms of that unknown.

Benchmarks that could be helpful

- ◆ An average person walks at the rate of 3 mph (1 mile every 20 minutes).
- ◆ The distance between Los Angeles and San Diego is approx. 120 miles.
- ◆ 1 mile is approximately equal to 1.6 km.
- ◆ 1 km is approximately equal to 0.6 mil

Conversion Factors

1 cup = 8 fluid ounces

4 cups = 1 quart