Unit 32 Solving Formula Problems

- 1. Solving formulas
 - A. Solving formulas is necessary when the unknown quantity is not by itself, on one side of the equation.
 - B. Using D = rt as an example
 - 1. Suppose D and t are known and r is unknown.
 - 2. r must be isolated from t
 - 3. Isolate r using the rule of opposites (review section 2 on page 76).
 - a. When variables are being multiplied, to isolate one, divide by the other.
 - b. In D = rt, r is isolated by dividing both sides of the formula by t.
 - c. Dividing **both sides** of the formula by t is necessary to keep the formula in balance.
 - C. Example: A family driving across the country traveled 420 miles in 7 hours. How fast were they traveling?



Note: Be sure to label your answer.

- 2. Solving multi-step formulas
 - A. Many formulas require a number of steps to complete.
 - B. Water boils at 212 degrees Fahrenheit. Find its boiling point in Celsius.

