Solving Proportions Algebraically #7

Name:

Date: Period:

Use the proportion to write an equation. Solve for the variable. Show all steps. "Circle" your answer.

1. $\frac{x}{4} = \frac{11.25}{12}$

2. $\frac{x}{2} = \frac{28}{7}$

3. $\frac{40}{8} = \frac{x}{3}$

4. $\frac{9}{14.4} = \frac{15}{x}$

5. $\frac{2.70}{2} = \frac{9.45}{x}$

6. $\frac{6.3}{5} = \frac{15.75}{x}$

For the following problems, set up a proportion (using "x" as the requested amount). Then write and solve an equation to determine the requested amount.

7. An 8 fl. oz. (fluid ounce) glass of orange juice provides 500mg (milligrams) of potassium. That's 14% your daily requirement of potassium. How many milligrams of potassium would fulfill the daily requirement?

For the following problems, set up a proportion (using "x" as the requested amount). Then write and solve an equation to determine the requested amount.

8. A banana provides 32mg of magnesium – 12% of your daily requirement of magnesium. How many milligrams of magnesium do you require in 1 day?

9. A one cup serving of Kellogg's Frosted Flakes provides 0.5g (grams) of dietary fiber. That's 2%of your daily dietary fiber requirement. How many cups of Frosted Flakes would you need to eat to reach your daily requirement of fiber?

10. A medium sized apple (about 180g) provides 25g of carbohydrates – 8% of your daily requirement of carbohydrates. What percent of your daily requirement of carbohydrates would 405 grams of apple provide?