

# Solving Proportions Algebraically #8

Name:

Date:

Period:

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

1.  $\frac{x}{5} = \frac{30}{20}$

2.  $\frac{x}{2.5} = \frac{7.2}{16}$

3.  $\frac{33}{11} = \frac{x}{3}$

4.  $\frac{9}{30} = \frac{15}{x}$

5.  $\frac{4.35}{3} = \frac{7.25}{x}$

6.  $\frac{2.25}{w} = \frac{9}{100}$

*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. According to the Nutritional Facts label, a 27g (3/4 cup) serving of Cocoa Puff provides 85mg (milligrams) of potassium. That's 2% 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. According to Wikipedia, a banana provides 422mg of potassium - 12% of your daily requirement of magnesium. How many milligrams of magnesium do you require in 1 day?
  
  
  
  
  
  
  
  
  
  
9. A serving of Quaker's Old Fashion Oats provides 4 (grams) of dietary fiber. That's 13% of your daily dietary fiber requirement. How many full servings would you need to eat to reach your daily requirement of fiber?
  
  
  
  
  
  
  
  
  
  
10. A  $\frac{3}{4}$  cup serving of Cocoa Puff provides 4% of your daily magnesium requirements. How many cups of Coco Puff would you need to eat to reach your daily requirement of magnesium?