Solving Proportions Algebraically #6

Name:

Date: Period:

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

1. $\dfrac{6.3}{5} = \dfrac{25.2}{x}$

2. $\dfrac{x}{3} = \dfrac{16.8}{12}$

3. $\dfrac{14}{8} = \dfrac{x}{3}$

4. $\dfrac{8.4}{x} = \dfrac{12}{10}$

5. $\dfrac{x}{2} = \dfrac{12}{5}$

6. $\dfrac{2.70}{2} = \dfrac{6.75}{x}$

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.   If the price of 5 ice cream cones is $3.25, what would be the cost for 4 of those ice cream cones?

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. 27 cupcakes were eaten at a lunch meeting with 18 people attending. How many cupcake would likely have been eaten if 22 people had attended?

9. A small plane fly 70 miles from Santa Rosa to Sacramento in 0.5 hours (1/2 of an hour). How far from Santa Rosa is San Luis Obispo if it takes the plane 1.8 hours to make that trip?

10. If it costs $6.25 for 5 pounds of apples, how much should you expect to pay for 8 pounds of apples?