Solving Proportions Algebraically #5

Name:

Date: Period:

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

1. $\dfrac{x}{32} = \dfrac{5}{10}$

2. $\dfrac{6}{x} = \dfrac{33}{44}$

3. $\dfrac{5}{10} = \dfrac{x}{54}$

4. $\dfrac{15}{25} = \dfrac{33}{x}$

5. $\dfrac{x}{7} = \dfrac{14}{49}$

6. $\dfrac{1.25}{5} = \dfrac{x}{7}$

7. $\dfrac{15}{12} = \dfrac{x}{30}$

8. $\dfrac{x}{11} = \dfrac{60}{20}$

9. $\dfrac{8.75}{5} = \dfrac{x}{4}$

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.

10. If the price of three large candy bars is $4.50, what would be the cost for 5 of those candy bars?

11. In 5th period, 34 pencils were used when 17 students took a test. 46 pencils were used in 6th period. How many student probably took the test in 6th period?

12. If a 224 mile car trip took 4 hours, how far would the car likely travel in 5.5 hours?