Solving proportions practice hw ws #2

Name: _____ Class: _____

Solve each of the following proportions. Clearly show your method and work steps.

1. $\frac{n}{15} = \frac{4}{5}$

2. $\frac{12}{21} = \frac{y}{14}$

3. $\frac{16}{x} = \frac{2}{7}$

4. $\frac{105}{35} = \frac{27}{n}$

For each of the following problems, write a proportion, and show your work steps to solve.

5. At the rate of 3 bubblegum balls for 16 ¢ , how many bubblegum balls can you buy for 80 ¢ ?

6. A recipe calls for 4 cups of flour to 6 TBS (tablespoons) of shortening. How many TBS of shortening are needed for 6 cups of flour?

7. A tree casts a shadow of 15 meters, while a 2-meter post nearby casts a shadow of 3 meters. How tall is the tree?

8. If a scale distance of 3.5 centimeters on a map represents an actual distance of 175 kilometers, what actual distance does a scale distance of 5.7 centimeters represent?

9. The girl's soccer team scored 60 points in 10 games. If this trend were to continue, what would be the points scored in 15 games?

10. A train travels 90 miles in 1.5 hours. How many miles will the train go in 6 hours if it continues to travel at the same rate of speed?

11. If 3 tickets to the school play cost $13.20, what would 7 tickets cost?

12. A 40-acre farm yields 600 bushels of wheat. At the same rate, how much wheat would a 75-acre farm yield?

13. A field worker received $110 for working 20 hours. At the same rate of pay, how many hours must he work to earn $187?

14. At Baldwin Street Middle School, there are 4 girls for every 5 boys. If there are 560 girls in the school, how many boys attend the school?

15. To make concrete for our basketball pole, we mixed 1 bag of cement to 4 bags of sand. How many bags of cement would be used with 100 bags of sand?