Solving Multiplication Equations Name:

Solve each equation.

* Be sure to show your work on both sides of the equation.
* Make sure you show how you check your answer.

1. 7x = 56 2. 6w = 0

3. 52 = 4p 4. 36 = 2m

5. 5 d = 25.5 6. 3 g = 6.21

7. 24.16 = 8h 8. 51.6 = 3 w

9. $\frac{3}{4}$ s = 4 ½ 10. $\frac{8}{9}$ k = 3 $\frac{1}{9}$

11. 8 $\frac{2}{3}$ = $\frac{5}{6}$ t 12. $\frac{8}{10}$ = $\frac{4}{5}$ n

13. You purchase 5 packages of paper. You paid a total of $15 for all of the paper. Write a multiplication equation you can use to find p, the cost of a package of paper. Then solve the equation.

14. You purchase 15 tickets to an amusement park. The total cost for tickets is $360. Write a multiplication equation you can use to find t, the cost of a ticket. Then solve the equation.

15. One ticket to the movie theater costs $7. You spent a total of $112 to purchase movie tickets for a group of your friends. Write a multiplication equation you can use to find t, the number of tickets you purchased for your friends. Then solve the equation.

16. The average time a doctor spends with each patient is 18 minutes. She works for 9 hours a day. Write and solve a multiplication to find the average number of patients that the doctor sees in a day. (Hint: Convert hours to minutes first.)

Your answers for this section should be fractions or decimals.

17. 4 m = 7 18. 8 q = 31

19. 43 = 6 n 20. 76 = 7h