Name _____ Date _____ Class _____

Writing Equations to Represent Situations
Practice and Problem Solving: A/B

Determine whether the given value is a solution of the equation. Write *yes* or *no*.

1. $x + 11 = 15$; $x = 4$ _____

2. $36 - w = 10$; $w = 20$ _____

3. $0.2v = 1.2$; $v = 10$ _____

4. $15 = 6 + d$; $d = 8$ _____

5. $28 - w = 25$; $w = 3$ _____

6. $4t = 32$; $t = 8$ _____

7. $\dfrac{12}{s} = 4$; $s = 3$ _____

8. $\dfrac{33}{p} = 3$; $p = 11$ _____

Circle the letter of the equation that each given solution makes true.

9. $m = 19$

   A $10 + m = 20$ C $7m = 26$

   B $m - 4 = 15$ D $\dfrac{18}{m} = 2$

10. $a = 16$

   A $2a = 18$ C $24 - a = 6$

   B $a + 12 = 24$ D $\dfrac{a}{4} = 4$

Write an equation to represent each situation.

11. Seventy-two people signed up for the soccer league. After the players were evenly divided into teams, there were 6 teams in the league and x people on each team.

_____

12. Mary covered her kitchen floor with 10 tiles. The floor measures 6 feet long by 5 feet wide. The tiles are each 3 feet long and w feet wide.

_____

Solve.

13. The low temperature was 35°F. This was 13°F lower than the daytime high temperature. Write an equation to determine whether the high temperature was 48°F or 42°F.

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14. Kayla bought 16 bagels. She paid a total of $20. Write an equation to determine whether each bagel cost $1.50 or $1.25.

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15. Write a real-world situation that could be modeled by the equation $\dfrac{24}{y} = 3$. Then solve the problem.

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