

Name: _____ Period: _____ Score: _____

HW 1-4: Solving Two-Step Equations

Solve each equation. Check your solution.

1. $5 = 4a - 7$

5. $2g - 3 = -19$

9. $13 - 3d = -8$

2. $16 = 5x - 9$

6. $-3 - 6x = 9$

10. $\frac{5}{7} + 2y = 3\frac{4}{7}$

3. $11 = 2b + 17$

7. $-5y - 25 = 25$

11. $\frac{3}{4} = \frac{5}{12}w + 2\frac{1}{3}$

4. $-17 = 6p - 5$

8. $3 - 8c = 35$

12. $\frac{2}{5}m - \frac{3}{10} = \frac{7}{10}$

13. Larina received a \$50 gift card to an online store. She wants to purchase some bracelets that cost \$8 each. There will be a \$10 overnight delivery fee. Solve $8n + 10 = 50$ to find the number of bracelets she can purchase.

14. LaTasha paid \$75 to join a summer golf program. The course where she plays charges \$30 per round. Since she is a student, she receives a \$10 discount per round. If LaTasha spent \$375, use the equation $375 = 20g + 75$ to find how many rounds of golf LaTasha played.

Solve each equation.

15. $-\frac{2}{3}m - 4 = 10$

20. $15 - \frac{w}{4} = 28$

16. $\frac{a-4}{5} = 12$

21. $13 = \frac{g}{3} + 4$

17. $\frac{n+3}{8} = -4$

22. $\frac{x+7}{-3} = 5$

18. $-\frac{1}{2}x - 7 = -11$

23. $\frac{y-4}{2} = -7$

19. $\frac{6+z}{10} = -2$

24. What is the value of m if $-6m + 4 = -32$?

A. 6

B. $4\frac{2}{3}$

C. $2\frac{1}{3}$

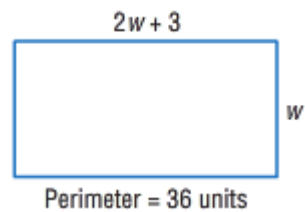
D. -6

25. Some friends decide to go to the aquarium together. Each person pays \$7.50 to get in. They spend a total of \$40 for the shark exhibit. The total cost is \$70. Solve $7.5x + 40 = 70$ to find how many people went to the aquarium.

26. Brent had \$26 when he went to the fair. After playing 7 games, he had \$15.50 left. Solve $15.50 = 26 - 7p$ to find the price for each game.

27. The width of the rectangle below can be found by solving the equation $6w + 6 = 36$. What is the width of the rectangle?

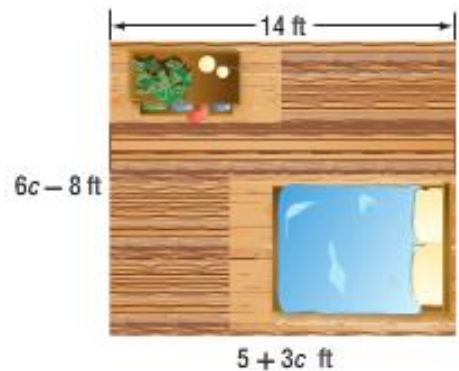
- A. 4 units
- B. 5 units
- C. 6 units
- D. 7 units



28. If Mr. Arenth wants to put new carpeting in the room shown, how many square feet should he order?

Part a: The length of the room is 14 ft. Solve for c .

Part b: Use the value you found for c to find the width.



Part c: Calculate the area of the room. $(A = lw)$

29. What value of y makes the equation $\frac{y}{4} - 7 = 3$ true?

30. What is the value of x in the following equation?

$$40 = -11 + 3x$$

A. -17

C. $\frac{29}{3}$

B. $-\frac{29}{3}$

D. 17