

<sup>13.</sup> 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. Check your solution. Graph the solution set for each inequality.

15. 
$$-\frac{2}{3}m-4=10$$
 19.  $\frac{6+z}{10}=-2$  23.  $-\frac{2}{3}m-4>10$ 

16. 
$$\frac{a-4}{5} = 12$$
 20.  $15 - \frac{w}{4} = 28$ 

17. 
$$\frac{n+3}{8} = -4$$
 21.  $13 = \frac{g}{3} + 4$  24.  $\frac{y-4}{2} = -7$ 

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$$18. -\frac{1}{2}x - 7 = -11 \qquad \qquad 22. \frac{x+7}{-3} = 5$$

**25.** What is the value of *m* if -6m + 4 = -32?

A. 6  
B. 
$$4\frac{2}{3}$$
  
C.  $2\frac{1}{3}$   
D. -6

26. 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.

27. 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.

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



**29.** If Mr. Arenth wants to put new carpeting in the room show, 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 of the room.

**Part C.** Calculator the area of the room. Remember Area = length\*width

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

**31.** What is the value of *x* in the following equation?

$$40 = -11 + 3x$$

A. -17B.  $-\frac{29}{3}$ C.  $\frac{29}{3}$ D. 17