

Lesson 24T ~ Solving Two-Step Equations

Name _____ Period _____ Date _____

Solve each equation for the variable. Show your work and check your solution.

1. $2x - 6 = 2$

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Undo the addition and subtraction first. Then rewrite the new equation and solve.

2. $\frac{y}{3} + 4 = -2$

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Check your answer:

2. - 6 $\stackrel{?}{=} 2$ YES NO

Check your answer:

+ 4 $\stackrel{?}{=} -2$ YES NO

3. $-10 = 2m + 4$

4. $\frac{h}{4} + 1.2 = 3.4$

Check your answer:

Check your answer:

5. $3y + 2 = -13$

6. $0.3x - 7 = 23$

Check your answer:

Check your answer:

7. $-3 = \frac{p}{6} - 2$

8. $\frac{1}{3}d + 6 = 15$

Check your answer:

Check your answer:

9. $\frac{w}{-2} + 4 = -5$

10. $\frac{a}{2} - 2.2 = 0.8$

Check your answer:

Check your answer:

11. Roberto bought a new recliner. He was able to pay \$200 at the time he received the recliner. He will pay \$20 each month on the balance. The original cost of the recliner was \$400.
- a. Let x represent the number of months needed to pay off the cost of the recliner. Explain how the equation $200 + 20x = 400$ represents this situation.

b. Solve the equation. How many months will it take Roberto to pay off the recliner?

12. Hal is thinking of a number. If he multiplies his number by three and then adds 4, he gets 25. What is Hal's number?

a. Write an equation to represent the situation.

b. Solve your equation and find Hal's number.