

2-2

Practice

Form K

Solving Two-Step Equations

Solve each equation. Check your answer.

1. $4x + 5 = 13$

2. $-8 + 3h = 1$

3. $2j - 13 = 25$

4. $\frac{n}{5} - 1 = 7$

5. $-5 = -8 + \frac{y}{10}$

6. $7 = -6m + 7$

7. $\frac{n}{-8} - 5 = -2$

8. $-14 = -6 + 4w$

9. $15 - 3t = -12$

10. $13 + \frac{a}{11} = 7$

Define a variable and write an equation for each situation. Then solve.

11. A fair charges \$7.25 for admission and \$5.50 for a ride pass. Ten friends visited the fair. Not all of the friends purchased ride passes. If their total cost was \$105.50, how many friends purchased ride passes?

12. A cafeteria sells entrées and additional items. An entrée costs \$4.75, and each additional item costs \$1.25. A customer pays \$9.75 for one entree and some additional items. How many additional items were ordered?

Solve each equation. Check your answer.

13. $\frac{f+4}{2} = 5$

14. $\frac{p-6}{3} = -15$

15. $\frac{c+5}{-6} = -4$

16. $\frac{1}{4}z + 9 = -1$

17. $\frac{1}{2} = \frac{1}{2}t + 3$

18. $4.52 - 5h = 2.8$

19. Jasmine is 23 years old. Jasmine is 3 years less than half of George's age. Write and solve an equation to find George's age.

20. An appliance repair person charges \$55 per trip plus \$15 per hour for her labor. The cost of fixing a stove was \$92.50. Write and solve an equation to find how many hours it took to repair the stove.

21. Shelly has a cell phone plan that costs \$9.99 per month plus \$0.05 per minute. Her total bill for the month is \$25.59. Write and solve an equation to find how many minutes she used for the month.

22. **Writing** Describe using words how to solve the equation $3 - 5n = -22$. Describe the properties utilized in the solution.