# 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.** $\dfrac{n}{5} - 1 = 7$

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

**6.** $7 = -6m + 7$

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

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

**9.** $15 - 3t = -12$

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

**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?

## 2-2 **Practice** (continued)

Solving Two-Step Equations

**Solve each equation. Check your answer.**

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

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

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

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

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

**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.