

LESSON
7.4

Name _____ Date _____

Practice B

For use with pages 332-337

Tell whether the given value of the variable is a solution of the equation.

1. $-5r = 125$; $r = -15$ 2. $4.2a = -21$; $a = -5$ 3. $\frac{n}{-6} = -84$; $n = -14$

Describe how to solve the equation without actually solving.

4. $8x = 72$ 5. $-14b = 8$ 6. $\frac{m}{11} = -6$

Solve the equation. Check your solution. Round the solution to the nearest hundredth if necessary.

7. $4p = 48$ 8. $2.3y = -20.7$ 9. $-\frac{1}{5}c = 35$
 10. $-9d = -76.5$ 11. $\frac{m}{7} = -43$ 12. $\frac{z}{6.2} = 4.5$
 13. $\frac{a}{-8} = 3.6$ 14. $-9.8 = \frac{w}{-2.3}$ 15. $-6 = \frac{3}{8}r$
 16. $\frac{5}{3}t = 30$ 17. $5.3q = 1.431$ 18. $b + 4b = 8$

Write the verbal sentence as an equation. Then solve the equation.

19. The quotient of a number x and 6 is 8.7.
 20. Three times a number a equals 14.4.
 21. The product of -2.2 and a number m is 13.2.
 22. At a part-time job, Marcus earns \$8.50 per hour. Write and solve an equation to find the number of hours he has to work to earn \$102.
 23. It costs you \$1.96 for four pounds of bananas. Write and solve an equation to find the cost of one pound of bananas.
 24. In a survey about favorite book categories, $\frac{1}{4}$ of the total number of people surveyed, or 39 people, responded that mystery was their favorite category. Write and solve an equation to find the total number of people surveyed.