

Name: \_\_\_\_\_



PRACTICE



TUTORIAL

## 4-4 Additional Practice

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In 1–4, explain how to isolate the variable in each equation.

1.  $81 = \frac{m}{9}$

2.  $h \div 3 = 12$

3.  $4r = 20$

4.  $34 = 17b$

In 5–12, solve each equation.

5.  $\frac{t}{35} = 42$

6.  $1 = \frac{u}{2}$

7.  $7s = 245$

8.  $600a = 2,400$

9.  $936 = 78p$

10.  $29 = k \div 5$

11.  $16d = 2,864$

12.  $180 = \frac{g}{12}$

In 13 and 14, write a division equation and a multiplication equation to represent each problem.

13. Gillian read 3,135 words in 19 minutes. Let  $w$  represent the number of words read each minute. If Gillian read the same number of words each minute, how many words did she read in 1 minute?

14. Colin is a math tutor. He charges the same amount,  $s$ , for every tutoring session. After 21 sessions he has earned \$1,575. How much does Colin charge for one tutoring session?

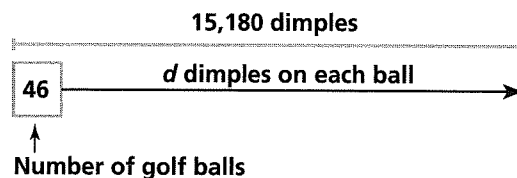
In 15–17, solve each division equation and use a multiplication equation to check your answer.

15.  $9,522 \div 9 = k$

16.  $7,848 \div w = 36$

17.  $56,259 \div 57 = i$

18. **Model with Math** The 46 golf balls in Stavin's golf bag have 15,180 dimples on them. Each golf ball has the same number of dimples. Use the bar diagram to write and solve an equation to find the number of dimples on each ball in Stavin's bag.



19. **Model with Math** Teddy is seven times older than Bella. If Teddy is 42 years old, how old is Bella? Write an equation to solve for Bella's age.
20. A cheese farmer distributes 672 ounces of cheese each day. The cheese is packaged in 16-ounce containers. Find the number of containers of cheese distributed each day by solving the equation  $16c = 672$ .
21. **Reasoning** On a calm day, the 32 windmills on the Bosley family wind farm each complete 120 revolutions every minute. Which operation would you use to find the total number of revolutions the 32 windmills complete in 1 minute? Explain.
22. The Columbus Junior Soccer League is selling raffle tickets to raise money for new uniforms and equipment. So far, league members have earned \$1,218 from selling 84 tickets. Use the equation  $1,218 \div 84 = r$  to find the cost of each raffle ticket. Then use the answer to find what the total earnings will be after 90 raffle tickets have been sold.
23. **Higher Order Thinking** Stanley bought 108 feet of fencing to put around his backyard. The backyard is a square. Write an equation to find the dimensions of his backyard. Is the area big enough for a pool that is  $800 \text{ ft}^2$ ? Explain.
24. There are 45 houses in Grey's Lake subdivision. Each house uses 400 gallons of water each day. Write a division equation to represent the total number of gallons of water used daily in Grey's Lake subdivision.



## Assessment Practice

25. In May, a landscaping crew used 8,500 pounds of potting soil. One bag contains 50 pounds of potting soil. Choose *Yes* or *No* to tell whether the following equations can be used to find how many bags of potting soil,  $p$ , the landscaping crew used in May.
- 25a.  $8,500 \div 50 = p$        Yes     No
- 25b.  $50p = 8,500$        Yes     No
- 25c.  $8,500p = 50$        Yes     No
- 25d.  $50 \div p = 8,500$        Yes     No

