We divide 365 by 5 and find that *n* is **73.**

$$5\overline{)365}$$
$$\begin{array}{r} 73 \\ 5\overline{)365} \\ -35 \\ \hline 15 \\ -15 \\ \hline 0 \end{array}$$

Example 4

Three students collected aluminum cans and were paid $8.85 by a recycling center for those cans. The income is to be divided equally. What amount of money should each student receive?

We divide $8.85 by 3. We place the decimal point in the quotient directly above the decimal point in the dividend. We find that each student should receive **$2.95.**

We can check our answer using a calculator. By multiplying $2.95 and 3, we see that the dividend is $8.85.

$$\begin{array}{r} \$2.95 \\ 3\overline{)\$8.85} \\ -6 \\ \hline 28 \\ -27 \\ \hline 15 \\ -15 \\ \hline 0 \end{array}$$
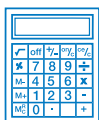
Verify Explain why the answer is reasonable.

Lesson Practice

Divide:

a. $4\overline{)\$5.56}$ **b.** $9\overline{)375}$ **c.** $3\overline{)\$4.65}$ **d.** $5\overline{)645}$

e. $7\overline{)\$3.64}$ **f.** $7\overline{)365}$ **g.** $10\overline{)546}$ **h.** $4\overline{)\$4.56}$

i. **Connect** Show how to check this division answer:

$$\begin{array}{r} 12 \text{ R } 3 \\ 6\overline{)75} \end{array}$$

Find each missing factor. Check each answer using a calculator. Then explain how you used the calculator to check your answer.

j. $3x = 51$ **k.** $4y = 92$ **l.** $6z = 252$

Written Practice *Distributed and Integrated*

Formulate For problems **1–3,** write an equation and find the answer.

1. The bicycle tire cost $2.98. Jen paid for the tire with a $5 bill. How
(16)   much should she get back in change?

2. Sarita sent 3 dozen muffins to school for a party. How many muffins did
(21) she send?

3. **Justify** When three new students joined the class, the number of
(11) students increased to 28. How many students were in the class before
the new students arrived? Explain how you found your answer.

*4. a. **Analyze** What is the smallest two-digit even number?
(2, 23)

    b. What is half of the number in part **a?**

    c. Use the answers to parts **a** and **b** to write a fraction equal to $\frac{1}{2}$.

5. Which factors of 8 are also factors of 16?
(25)

6. $5\overline{)375}$
(26)

7. $4\overline{)365}$
(26)

8. $6m = 234$
(18)

9. $\$4.32 \div 6$
(26)

10. $\dfrac{123}{3}$
(26)

11. $\dfrac{576}{6}$
(26)

12. $\$7.48 \times 4$
(17)

13. 609×8
(17)

14. $7 \times 8 \times 10$
(18)

*15. $7 \times 8 \times 0$
(15, 18)

16. $9374 - m = 4938$
(14)

17. $\$10 - \$6.24$
(13)

18. $l + 427 + 85 = 2010$
(10)

19. $\$12.43 + \$0.68 + \$10$
(13)

20. **Explain** Compare. Explain how you can answer the comparison
(4, 18) without multiplying.

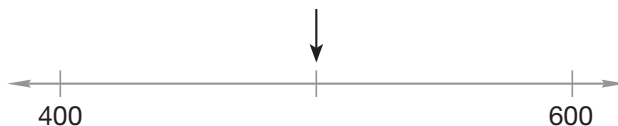$$3 \times 40 \bigcirc 3 \times 4 \times 10$$

21. $8 \times 90 = 8 \times 9 \times n$
(18)

22. **Connect** Write two multiplication facts and two division facts for the
(19) fact family 8, 9, and 72.

23. A checkerboard has 64 squares. The squares are in 8 equal rows. How
(21) many squares are in each row?

*24. How much money is $\frac{3}{4}$ of a dollar plus $\frac{3}{10}$ of a dollar?
(Inv. 2)

25. (Connect) What number is halfway between 400 and 600?
(12)

26. This equation shows that 7 is a factor of 91. Which other factor of 91 is
(25) shown by this equation?

$$\begin{array}{r} 13 \\ 7\overline{)91} \end{array}$$

27. What is the sum of three hundred forty-seven and eight hundred
(5, 6) nine?

*28. (Evaluate) Here is Todd's answer to a division problem. Show how
(22) to check the answer. Is Todd's answer correct? Why or why not?

$$\begin{array}{r} 16 \text{ R } 3 \\ 4\overline{)75} \end{array}$$

*29. Multiple Choice Which of these numbers is *not* a factor of 15?
(25)
   A 1   **B** 2   **C** 3   **D** 5

30. Write a word problem to represent the equation $3n = 24$. Then solve
(Inv. 1) the equation.

Early Finishers
Real-World Connection

Three friends worked together doing yard work each Saturday for three weeks. They earned $24.75 the first Saturday and $19.75 the second Saturday. On the third Saturday, they earned twice as much as they had earned the week before. If the friends share their earnings equally, how much will each friend get? Show your work.