Learning Target: Divide decimals by two-digit whole numbers.

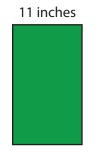
Success Criteria:

- I can use place value to divide.
- I can place the decimal point in the quotient.
- I can regroup when necessary.
- I can use estimation to divide.

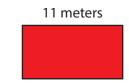


Explore and Grow

Write a division problem you can use to find the width of each rectangle. Then find the width of each rectangle.



Area = 253 square inches

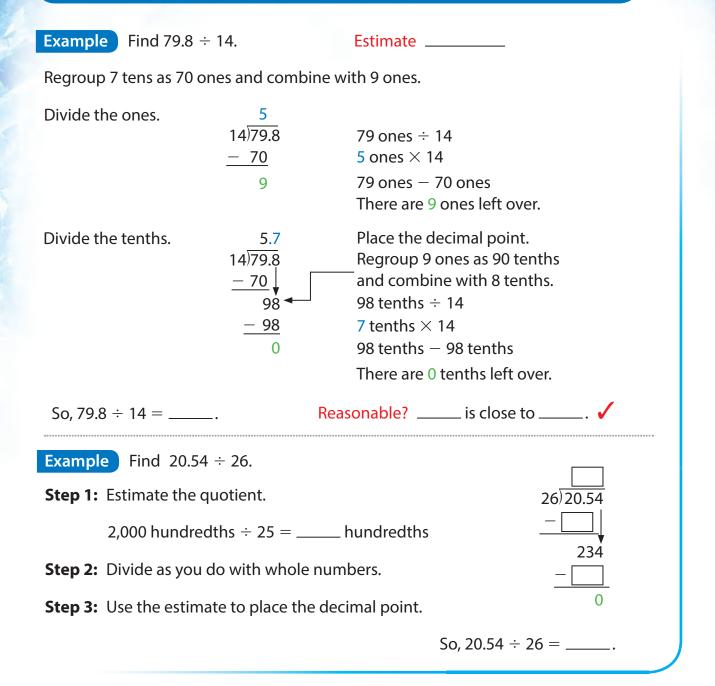


Area = 25.3 square meters

MP

Precision Explain how you can use estimation to check your answers.

Think and Grow: Divide Decimals by Two-Digit Numbers



Show and Grow

Find the quotient. Then check your answer.

1.
 2.
 3.

$$12)51.6$$
 $17)140.25$
 $61)32.33$

Apply and Grow: Practice

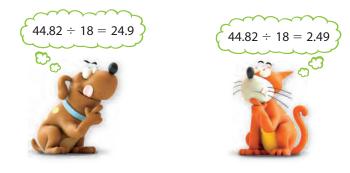
Place a decimal point where it belongs in the quotient.

4.
$$251.75 \div 19 = 1325$$
5. $88.04 \div 62 = 142$
6. $3.22 \div 23 = 014$

Find the quotient. Then check your answer.

7. 54)97.2	8. 91)200.2	9. 2)56.2
10. 6.08 ÷ 16 =	11. 7.45 ÷ 5 =	12. 147.63 ÷ 37 =
Find the value of <i>y</i> .		
13. <i>y</i> ÷ 44 = 1.82	14. 106.6 ÷ 82 = <i>y</i>	15. <i>y</i> ÷ 13 = 2.6

16. Logic Newton and Descartes find 44.82 ÷ 18. Only one of them is correct. Without solving, who is correct? Explain.



17. DIGDEEPER Find a decimal that you can divide by a two-digit whole number to get the quotient shown. Fill in the boxes with your dividend and divisor.

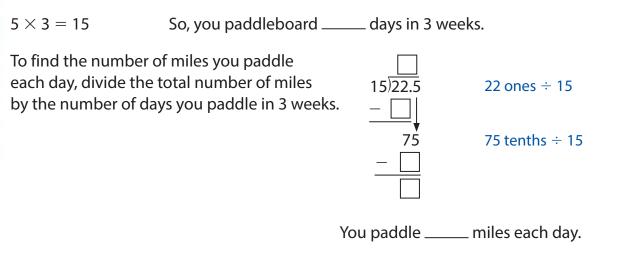
0.6	

Think and Grow: Modeling Real Life

Example You practice paddleboarding for 3 weeks. You paddle the same amount each day for 5 days each week. You paddle 22.5 miles altogether. How many miles do you paddle each day?



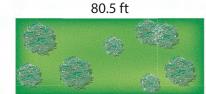
To find the total number of days you paddle in 3 weeks, multiply the days you paddle each week by 3.

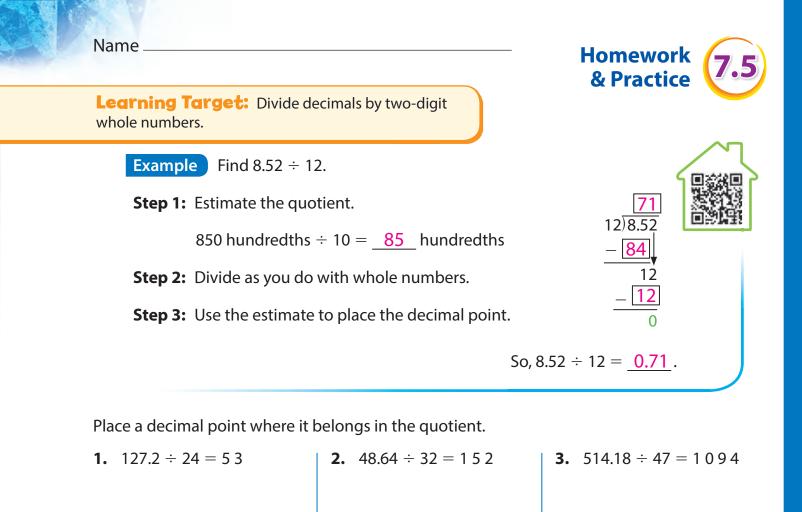


Show and Grow

- 18. Descartes borrows \$6,314.76 for an all-terrain vehicle. He pays back the money in equal amounts each month for 3 years. What is his monthly payment?
- 19. A blue car travels 297.6 miles using 12 gallons of gasoline and a red car travels 358.8 miles using 13 gallons of gasoline. Which car travels farther using 1 gallon of gasoline? How much farther?

20. DIG DEEPER The rectangular dog park has an area of 2,616.25 square feet. How much fencing does an employee need to enclose the dog park?





Find the quotient. Then check your answer.

4. 72)93.6	5. 7)3.92	6. 29)1.74
7. 24.3 ÷ 9 =	8. 244.9 ÷ 31 =	9. 55.62 ÷ 27 =

Chapter 7 | Lesson 5

Find the value of y.

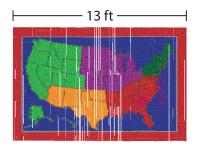
10. *y* ÷ 16 = 0.23

- **13.** YOU BE THE TEACHER Your friend finds 21.44 ÷ 16. Is your friend correct? Explain.
 - $\begin{array}{r} 13.4 \\
 16)21.44 \\
 -16 \\
 \hline
 54 \\
 -48 \\
 \hline
 64 \\
 -64 \\
 \hline
 -64 \\
 \hline
 \end{array}$
- **15.** Modeling Real Life You have hip-hop dance practice for 5 weeks. You attend practice 5 days each week. Each practice is the same length of time. You practice for 37.5 hours altogether. How many hours do you practice each day?

14. DIG DEEPER A banker divides the amount shown among 12 people. How can she regroup the money? How much money does each person get?



16. DIG DEEPER Your rectangular classroom rug has an area of 110.5 square feet. What is the perimeter of the rug?



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      Tend the product.

      17. 0.52 \times 0.4 =
      18. 0.7 \times 21.3 =
      19. 1.52 \times 8.6 =
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