Name _____

Reteaching
5-4

Dividing by Multiples of 10

Find 623 ÷ 40.

Step 1: Estimate the quotient using compatible numbers, 600 ÷ 40 = 15. Then, divide the tens.

$$\begin{array}{r} 1 \\ 40\overline{)623} \\ -40 \\ \hline 22 \end{array}$$

Divide 62 ÷ 40
Multiply 1 × 40 = 40
Subtract 62 − 40 = 22
Compare 22 < 40

Step 2: Bring down the ones. Then, divide the ones.

$$\begin{array}{r} 15 \\ 40\overline{)623} \\ -40\downarrow \\ \hline 223 \\ -200 \\ \hline 23 \end{array}$$

Divide 223 ÷ 40
Multiply 5 × 40 = 200
Subtract 223 − 200 = 23

Step 3: Since 23 < 40, write 23 as the remainder in the quotient.

$$\begin{array}{r} 15\ \text{R23} \\ 40\overline{)623} \\ -40\downarrow \\ \hline 223 \\ -200 \\ \hline 23 \end{array}$$

Compare 23 < 40

Complete.

1. $60\overline{)288}$

2. $20\overline{)455}$

3. $80\overline{)866}$

4. $30\overline{)233}$

5. $50\overline{)498}$

6. Celia plans to pack her books in boxes when her family moves. Each box will hold 20 books. Celia has 97 books. How many boxes will she need to pack all her books?

_____

Name _____

Practice
5-4

Dividing by Multiples of 10

In **1** through **6**, divide.

1. $20\overline{)467}$ _____

2. $40\overline{)321}$ _____

3. $80\overline{)813}$ _____

4. $40\overline{)284}$ _____

5. $90\overline{)648}$ _____

6. $10\overline{)587}$ _____

7. To drive from New York City, NY, to Los Angeles, CA, you must drive about 2,779 miles. If you drive 60 miles per hour , about how many hours would you spend driving? _____

8. Suppose one bottle of paint can cover 20 tiles. You have 348 tiles. How many bottles of paint do you need to buy to cover all 348 tiles? Explain.

_____

_____

9. A group of 483 students is taking a field trip. One bus is needed for every 50 students. How many buses are needed?

_____

10. A decagon is a ten-sided figure. If a regular decagon has a perimeter of 114 centimeters, how long is each side of the figure?

A 11.4 cm **B** 14 cm **C** 114 cm **D** 124 cm

11. To figure out how many hours it will take to drive from his home to his cousin's house, a student divides 289 by 60 and estimates that it will take about 4.5 hours. Explain whether you think this is a reasonable estimate.

_____

_____

_____

