Unit 4, Lesson 12

# Divide, Using Partial Quotients

Let's use a partial-quotients algorithm to divide three-digit and four-digit dividends by two-digit divisors.

Warm-up

## Number Talk: Divide

Find the value of each expression mentally.

- $110 \div 10$
- $121 \div 11$
- $132 \div 12$
- $154 \div 14$

Activity 1

## Compare Solutions

1. Use a partial-quotients algorithm to find the value of one of the quotients.

   Partner 1

   $32\overline{)608}$

   Partner 2

   $19\overline{)589}$

2. Explain to your partner how you found the value of the quotient.
3. Compare your work with another group.

Activity 2

## Estimate and Solve

Estimate the value of each quotient. Then use a partial-quotients algorithm to find the value.

1. A reasonable estimate for $612 \div 34$ is:

2. A reasonable estimate for $536 \div 23$ is:

3. A reasonable estimate for $1{,}044 \div 29$ is:

$34\overline{)612}$ $23\overline{)536}$ $29\overline{)1,044}$