



# 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

Partner 2

$$32 \overline{)608}$$

$$19 \overline{)589}$$

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:

$$34 \overline{)612}$$

$$23 \overline{)536}$$

$$29 \overline{)1,044}$$