## Lesson 13: Divide Using Partial Quotients

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


## Warm-up: Number Talk: Divide

Find the value of each expression mentally.

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


## 13.1: Compare Solutions

1. Use an algorithm using partial quotients to find the value of one of the quotients. Be prepared to explain how you found the quotient.

## $3 2 \longdiv { 6 0 8 }$ <br> $1 9 \longdiv { 5 8 9 }$

2. Explain to your partner how you found the value of the quotient.
3. Pair up with another group and compare your work.

## 13.2: Estimate and Solve

Estimate the value of each quotient. Then, use an algorithm using partial quotients to find the value.

1. A reasonable estimate for $612 \div 34$ is:
$3 4 \longdiv { 6 1 2 }$
2. A reasonable estimate for $529 \div 23$ is:
$2 3 \longdiv { 5 2 9 }$
3. A reasonable estimate for $1,044 \div 29$ is:
$2 9 \longdiv { 1 , 0 4 4 }$
