

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 ÷ 10

• 121 ÷ 11

• 132 ÷ 12

• 154 ÷ 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.

Partner 1:

Partner 2:



- 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: 34)612

2. A reasonable estimate for $529 \div 23$ is:

23)529

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