Illustrative Mathematics

Unit 4 Lesson 13: Divide Using Partial Quotients

WU Number Talk: Divide (Warm up)

Student Task Statement

Find the value of each expression mentally.

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

1 Compare Solutions

Student Task Statement

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:

   $$32 \overline{)608}$$

   Partner 2:

   $$19 \overline{)589}$$

2. Explain to your partner how you found the value of the quotient.

3. Pair up with another group and compare your work.

2 Estimate and Solve

Student Task Statement

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:

   $$34 \overline{)612}$$

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

$$23\overline{)529}$$

3. A reasonable estimate for 1,044 ÷ 29 is:

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