

Grade 5 Unit 4

Lesson 12

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Unit 4 Lesson 12: An Algorithm Using Partial Quotients**WU Notice and Wonder: Incomplete Solution (Warm up)**

Student Task Statement

What do you notice? What do you wonder?

$$\begin{array}{r} 20 \\ 16 \overline{)448} \\ \underline{-320} \quad (20 \times 16) \\ 128 \\ \quad (5 \times 16) \end{array}$$

1 Elena's Work

Student Task Statement

1. Find the value of $448 \div 16$. Show your thinking. Organize it so it can be followed by others.

(Pause for teacher directions.)

2. This is Elena's work. Describe the steps Elena took to find the value of $448 \div 16$.

$$\begin{array}{r} \boxed{28} \\ 3 \\ 5 \\ 20 \\ 16 \overline{)448} \\ \underline{-320} \quad (20 \times 16) \\ 128 \\ \underline{-80} \quad (5 \times 16) \\ 48 \\ \underline{-48} \quad (3 \times 16) \\ 0 \end{array}$$

2 Complete the Solution

Student Task Statement

Use Elena's strategy to complete the following problems:

1.

$$\begin{array}{r} 20 \\ 20 \\ 12 \overline{)492} \\ -240 \\ \hline 252 \\ -240 \\ \hline \end{array} \quad \begin{array}{l} (20 \times 12) \\ (20 \times 12) \end{array}$$

2.

$$\begin{array}{r} 40 \\ 15 \overline{)630} \end{array} \quad (40 \times 15)$$

3.

$$14 \overline{)364}$$