

#### **Grade 5 Unit 4**

Lesson 5

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# **Unit 4 Lesson 5: Standard Algorithm: Multi-digit Numbers without Composing**

#### **WU Number Talk: Partial Products (Warm up)**

Student Task Statement

Find the value of each product mentally.

- 20 × 3
- 24 × 3
- 120 × 3
- 140 × 3

### 1 Compare Two Algorithms

Student Task Statement

Two algorithms for finding the value of  $413 \times 21$  are shown.

step 7

- 1. How are the two algorithms the same? How are they different?
- 2. Explain or show where you see each step from the first algorithm in the second algorithm.
- 3. How do the final steps in the two algorithms compare?

## 2 Use the Standard Algorithm

#### Student Task Statement

Use the standard algorithm to find the value of each expression.

- 1.  $202 \times 12$
- 2.  $122 \times 33$
- 3.  $321 \times 24$
- 4. Diego found the value of  $301 \times 24$ . Here is his work. Why doesn't Diego's answer make sense?