## 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 $413×21$ are shown.



step 1



step 2



step 3



step 4



step 5



step 6



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. $202×12$
2. $122×33$
3. $321×24$
4. Diego found the value of $301×24$. Here is his work. Why doesn’t Diego’s answer make sense?
* 



© CC BY 2021 Illustrative Mathematics®