## Unit 4 Lesson 3: Partial Products in Algorithms

### WU Which One Doesn't Belong: Multiplying Large Numbers (Warm up)

#### Student Task Statement

Which one doesn't belong?

A

B

C

D

### 1 Partial Products Everywhere

#### Student Task Statement







1. Take turns picking out a set of expressions that are equal to $245×35$ when added together. Use the diagrams if they are helpful.
2. Explain how you know the sum of your expressions is equal to $245×35$.
3. What is the value of $245×35$? Explain or show your reasoning.

### 2 Record Partial Products

#### Student Task Statement

Andre



Clare



1. How are Andre’s and Clare’s strategies the same? How are they different?
2. Create a list of equations to match the partial products Andre and Clare found.



© CC BY 2021 Illustrative Mathematics®