## Lesson 3: Partial Products in Algorithms

- Let's find partial products.


## Warm-up: Which One Doesn't Belong: Multiplying Large Numbers

Which one doesn't belong?

A


B

$$
(4 \times 5,000)+(4 \times 300)+(4 \times 40)+(4 \times 2)
$$

C


D


## 3.1: Partial Products Everywhere



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

## 3.2: Record Partial Products



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.
