Unit 4, Lesson 2

# Partial Products in Diagrams

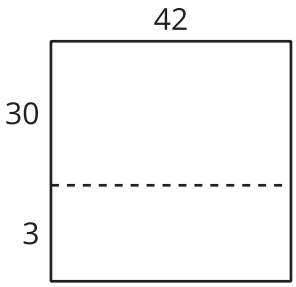
Let's interpret diagrams that can help us find products.

## Warm-up

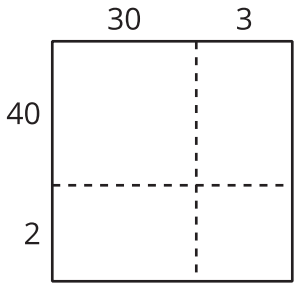
### Which Three Go Together: Diagrams to Find Products

Which 3 go together?

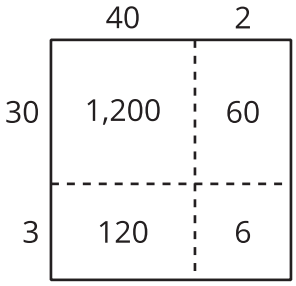
**A**



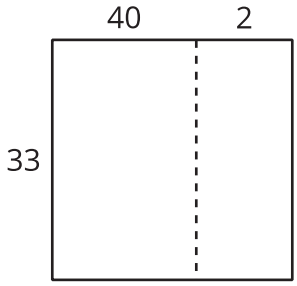

**B**




**C**




**D**

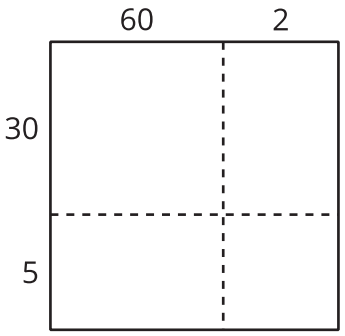


Activity 1

## Decompose in Many Ways

1. This diagram represents $62 \times 35$.

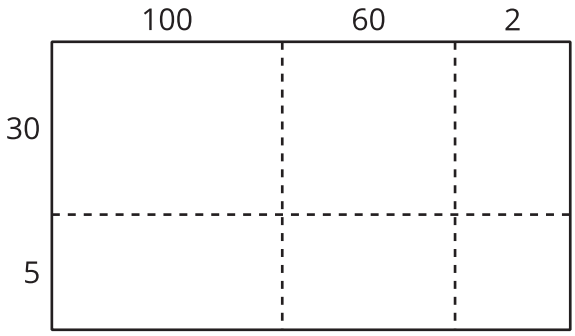
   Write the value of each product inside the rectangles.




2. Find the value of $62 \times 35$.

3. This diagram represents $162 \times 35$.

   Write the value of each product inside the rectangles.



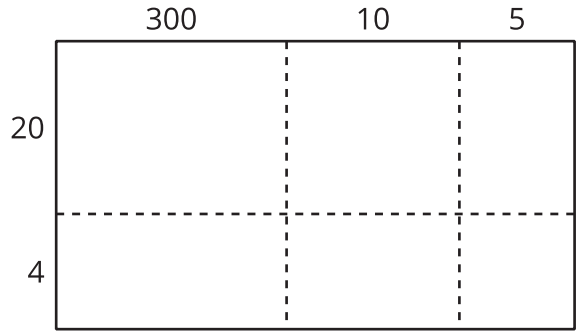

4. Find the value of $162 \times 35$.

Activity 2

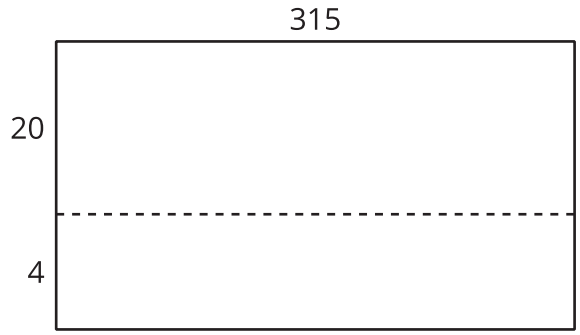
## Calculate in Many Ways

Here are some different diagrams that represent $315 \times 24$. For each diagram, write a multiplication expression inside each rectangle to represent the products.

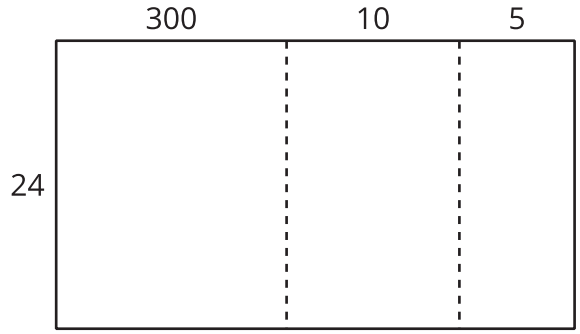
1.




2.




3.



4. Use one of the diagrams to find the value of $315 \times 24$.

5. Explain why you chose that diagram to find the product.