Unit 4, Lesson 2

Partial Products in Diagrams

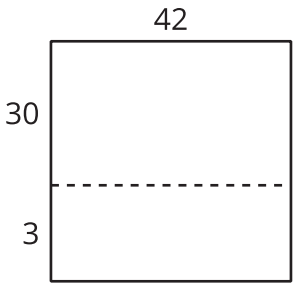
Let's interpret diagrams that can help us find products.

Warm-up

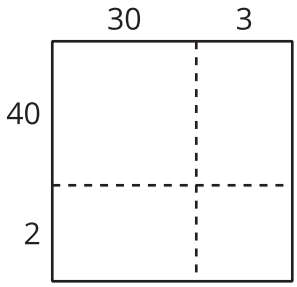
Which Three Go Together: Diagrams to Find Products

Which 3 go together?

A



B



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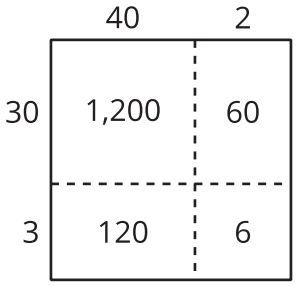
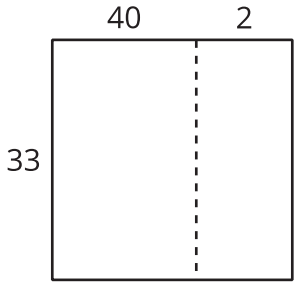


D

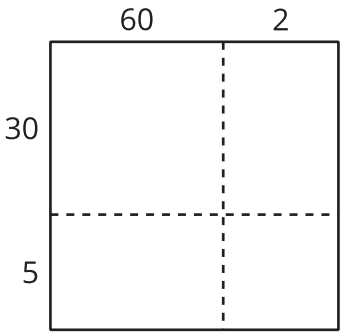


Activity 1

Decompose in Many Ways

1. This diagram represents 62×35.

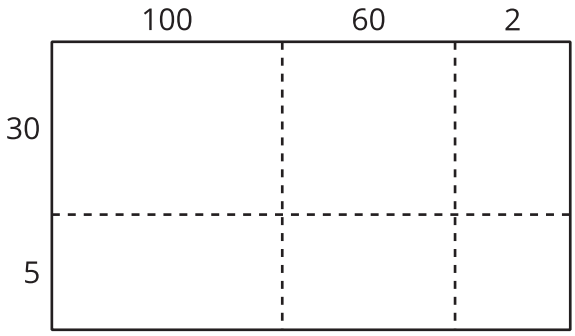
   Write the value of each product inside the rectangles.



2. Find the value of 62×35.

3. This diagram represents 162×35.

   Write the value of each product inside the rectangles.



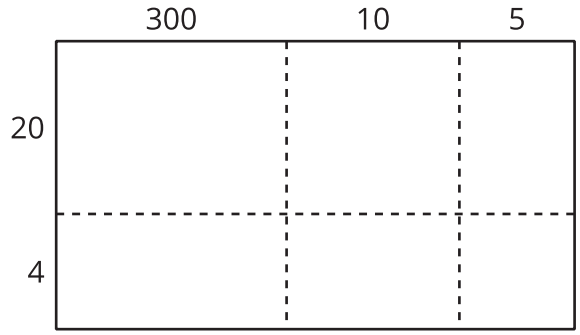
4. Find the value of 162×35.

Activity 2

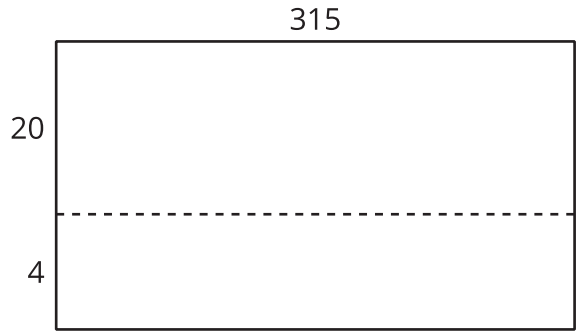
Calculate in Many Ways

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

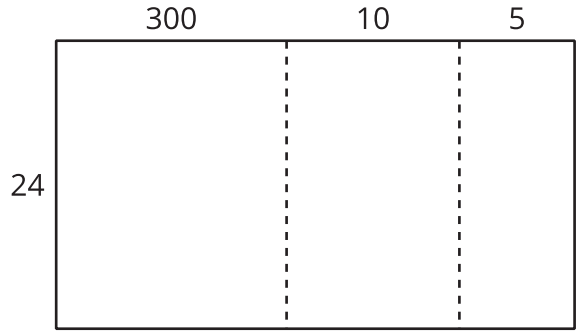
1.



2.



3.



4. Use one of the diagrams to find the value of 315×24.

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