## Unit 8 Lesson 12: Partition Rectangles into Squares

### WU Estimation Exploration: Fill it Up (Warm up)

#### Student Task Statement

How many little squares would fill the rectangle?



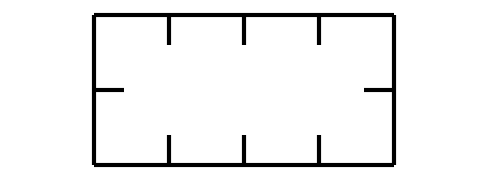
Record an estimate that is:

| too low | about right | too high |
| --- | --- | --- |
|  |  |  |

### 1 How Many Squares?

#### Student Task Statement

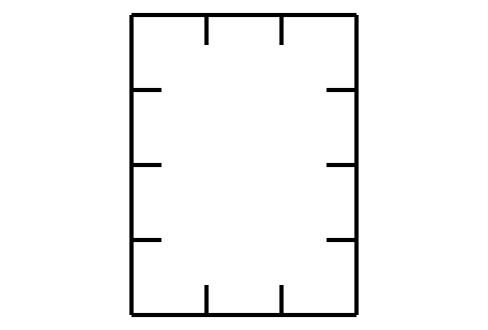
1. Build a rectangle with 8 tiles arranged in 2 rows. Use a ruler to partition the rectangle to match the rectangle you made.

* 

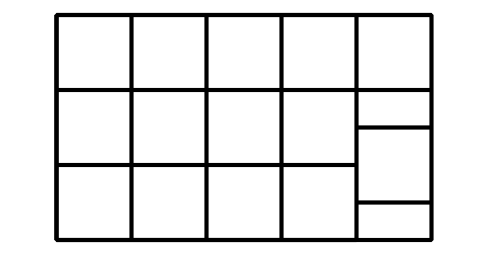
1. Use a ruler to partition the rectangle using the tick marks as a guide.

* 
  1. How many rows of equal-size squares did you make?
  2. How many columns did you make?
  3. Write 2 equations to represent the total number of equal-size squares.

1. Use a ruler to partition the rectangle using the tick marks as a guide.

* 
  1. How many rows of equal-size squares did you make?
  2. How many columns did you make?
  3. Write 2 equations to represent the total number of equal-size squares.

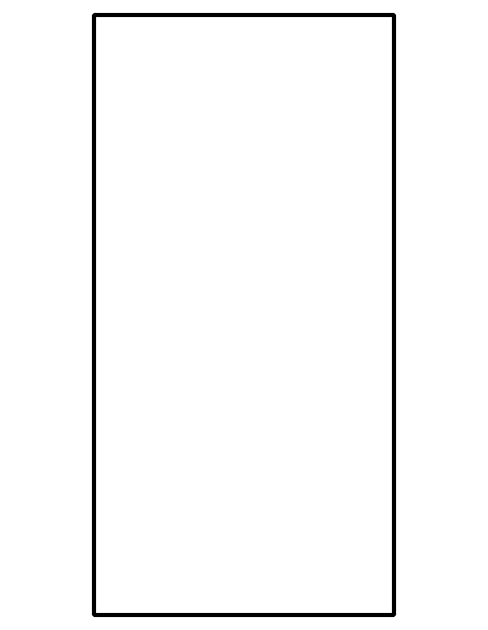
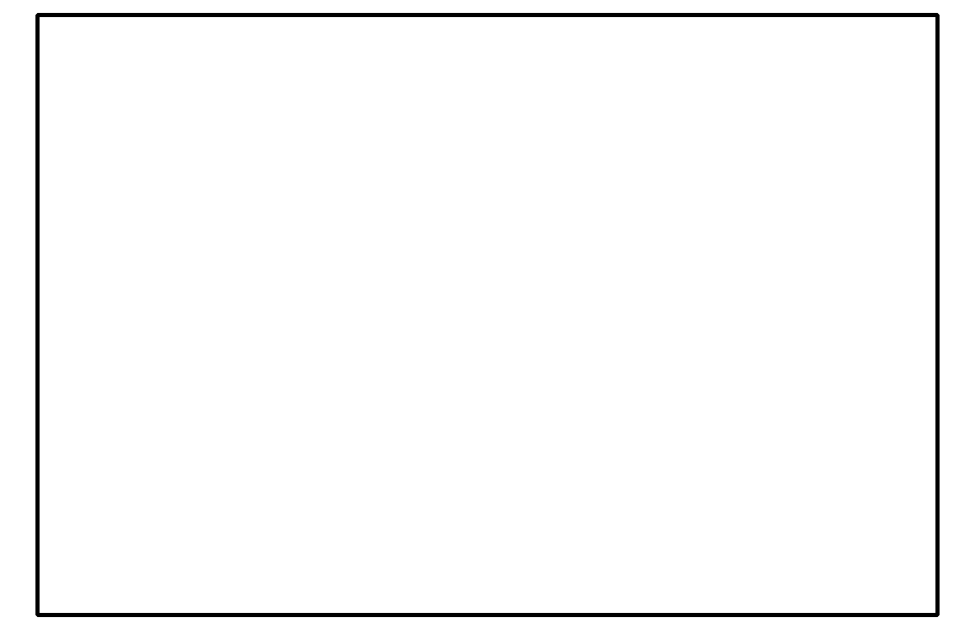
#### Activity Synthesis



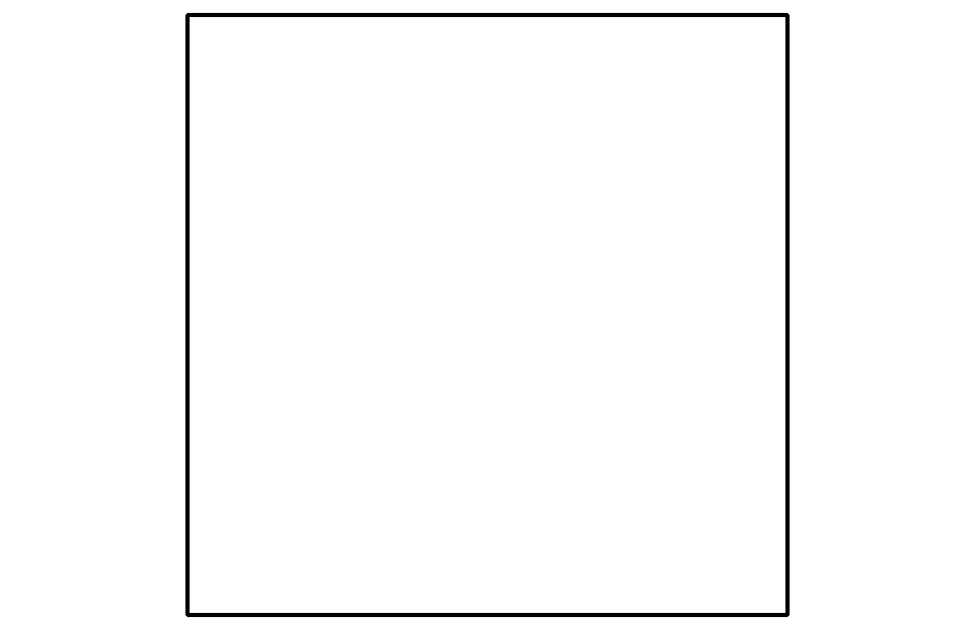
### 2 Partition Rectangles

#### Student Task Statement

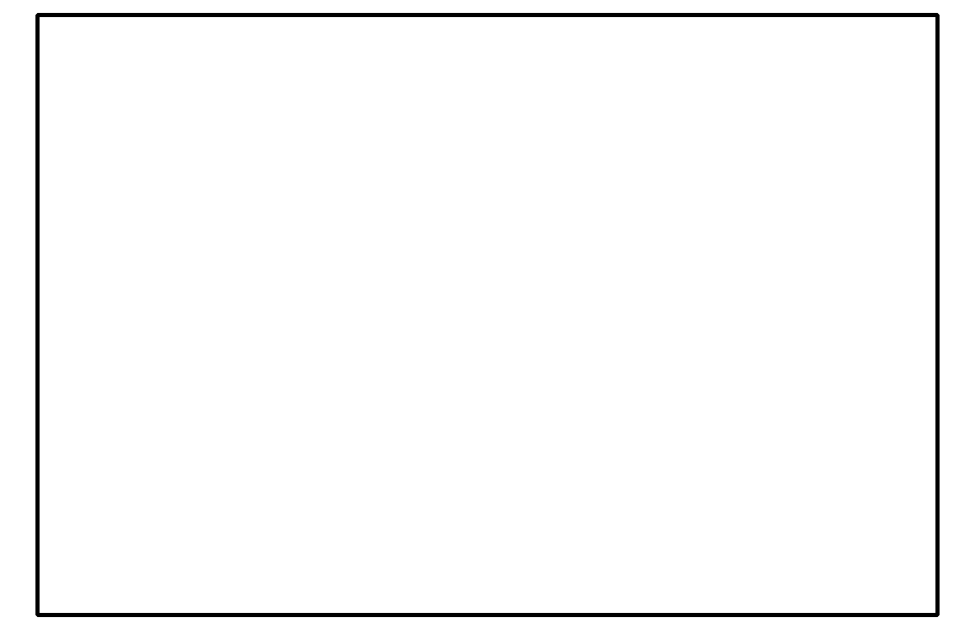
1. Use 12 tiles to make a rectangle. Split one of the rectangles into equal-size squares to match your rectangle made of tiles.

* 
* 
  1. Write 2 equations to represent the total number of squares.

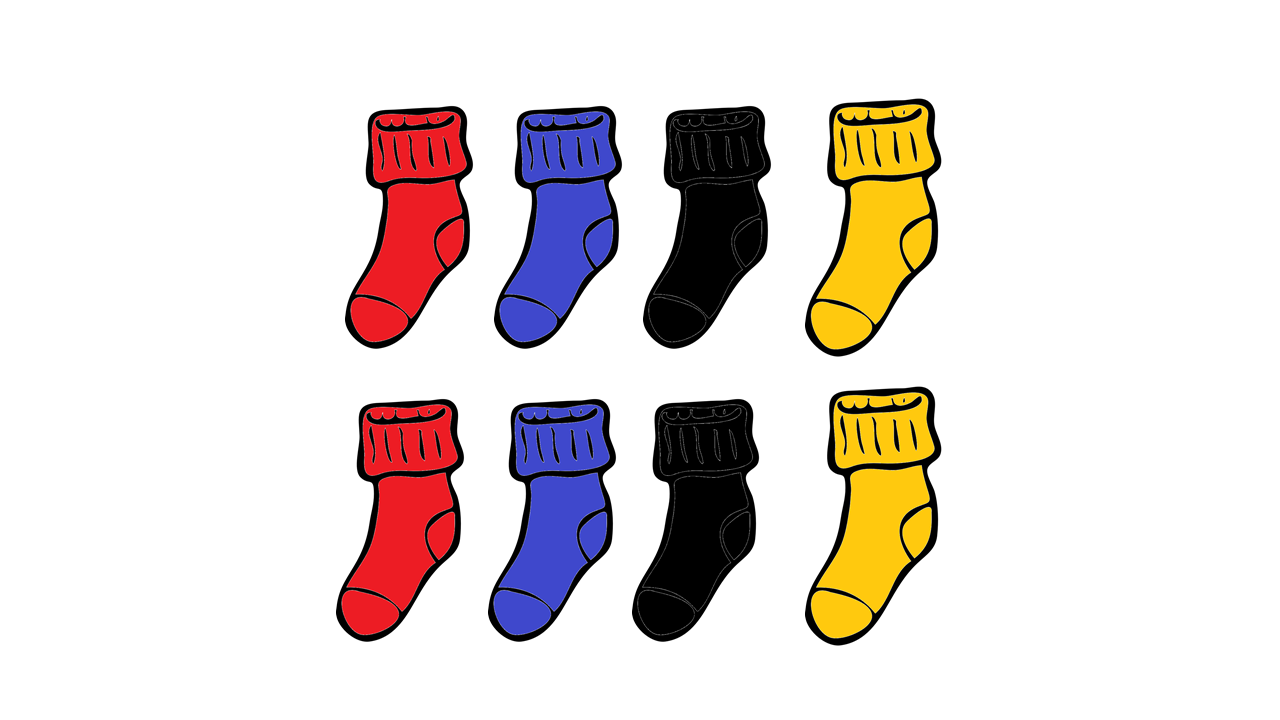
1. Split this rectangle into equal-size squares.

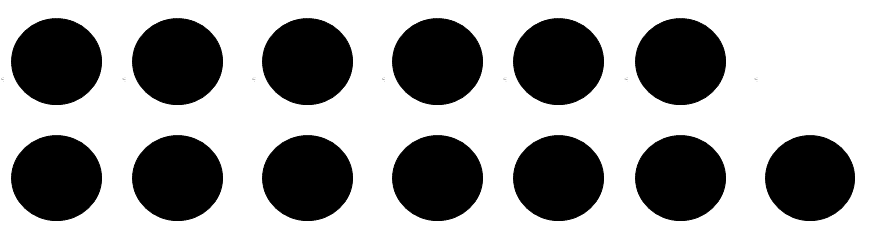
* 
  1. Write 2 equations to represent the total number of squares.

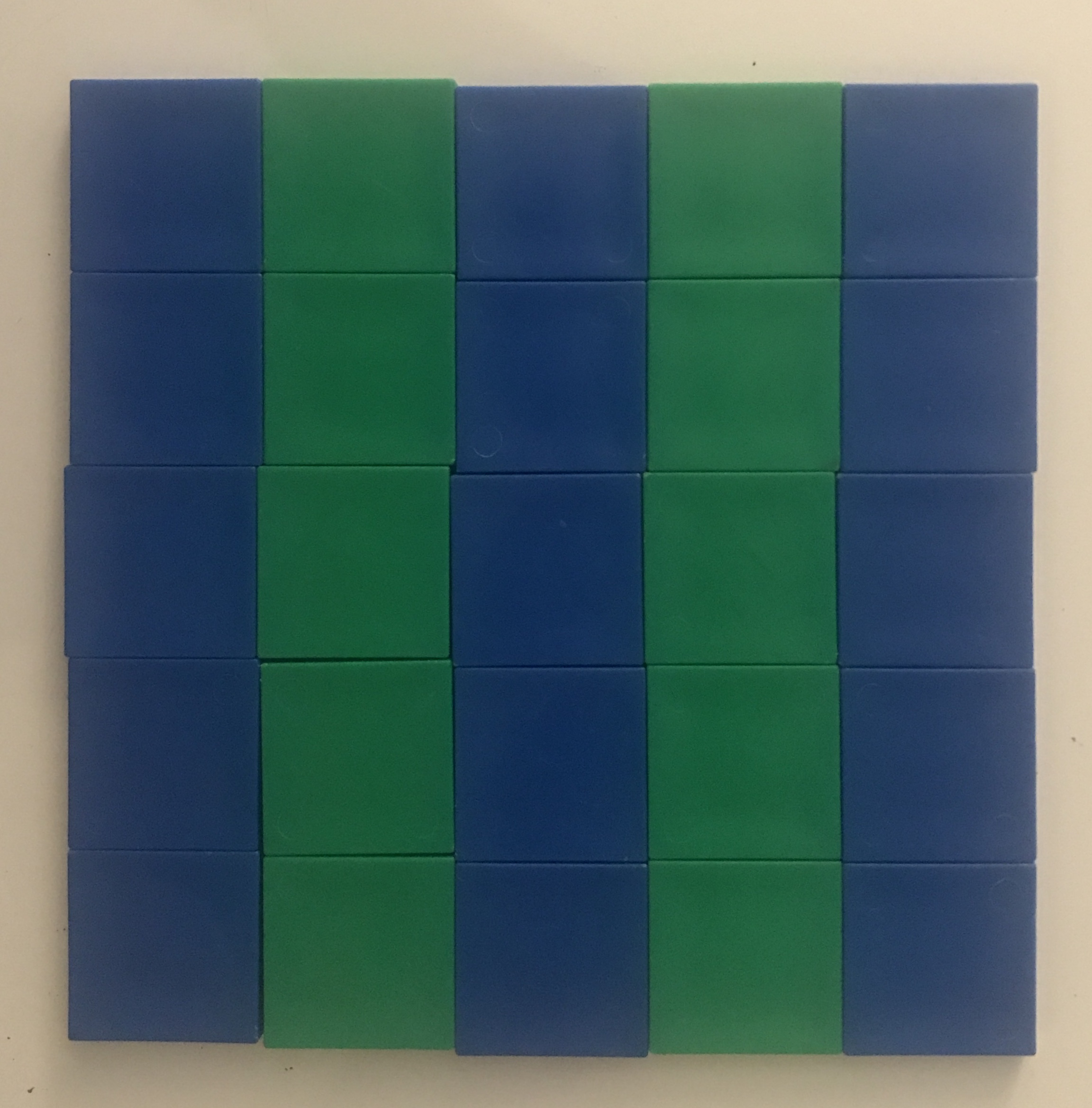
1. Split this rectangle into equal-size squares.

* 
  1. Write 2 equations to represent the total number of squares.

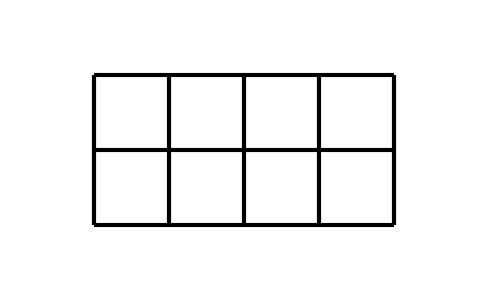
#### Images for Activity Synthesis











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