Illustrative Mathematics

Grade 2 Unit 8
Lesson 12
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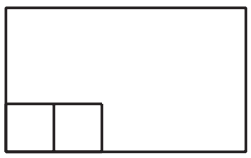
Unit 8 Lesson 12: Partition Rectangles into Squares

WU Estimation Exploration: Fill it Up (Warm up)

Student Task Statement

How many little squares would fill the rectangle?



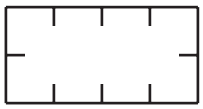
Record an estimate that is:

too low	about right	too high

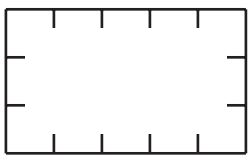
1 How Many Squares?

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.

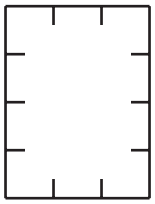


2. Use a ruler to partition the rectangle using the tick marks as a guide.



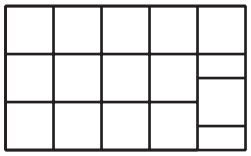
a. How many rows of equal-size squares did you make?
b. How many columns did you make?
c. Write 2 equations to represent the total number of equal-size squares.

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



a. How many rows of equal-size squares did you make?
b. How many columns did you make?
c. Write 2 equations to represent the total number of equal-size squares.

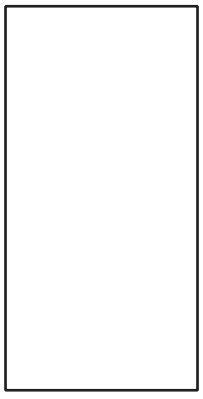
Activity Synthesis

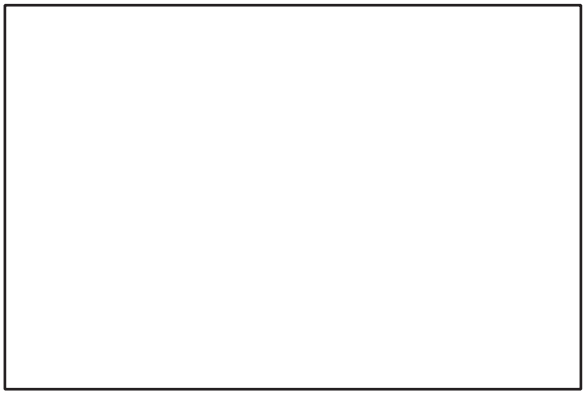


2 Partition Rectangles

Student Task Statement

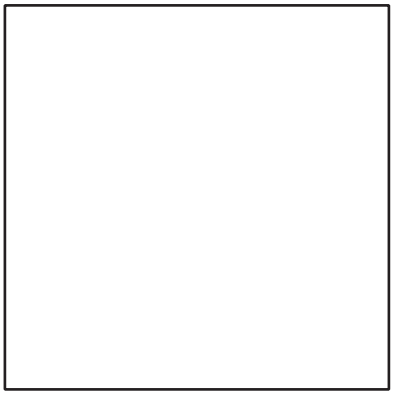
1. Use 12 tiles to make a rectangle. Split one of the rectangles into equal-size squares to match your rectangle made of tiles.





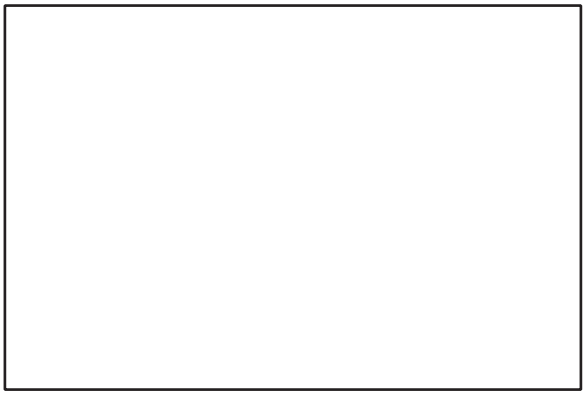
a. Write 2 equations to represent the total number of squares.

2. Split this rectangle into equal-size squares.



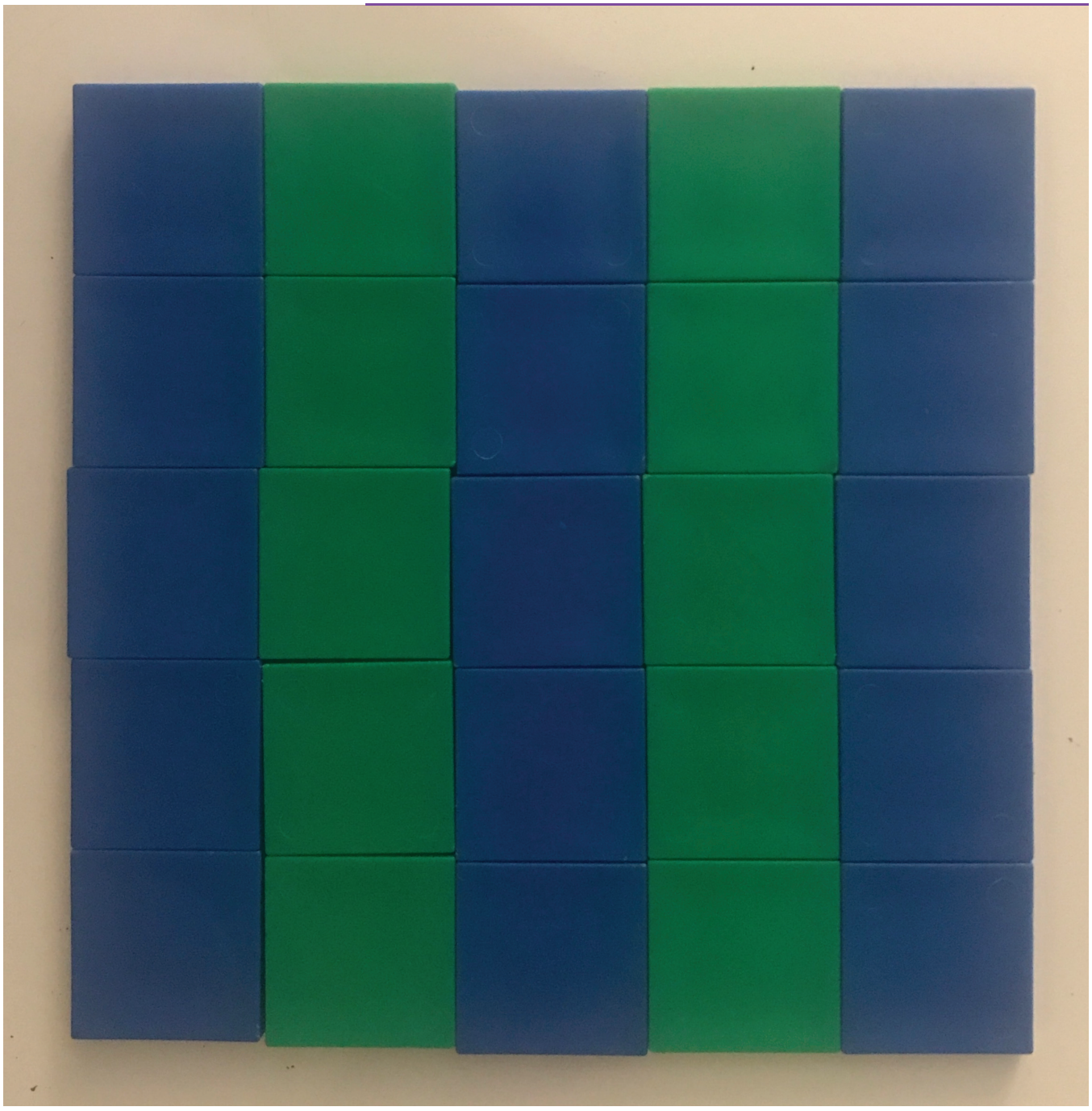
a. Write 2 equations to represent the total number of squares.

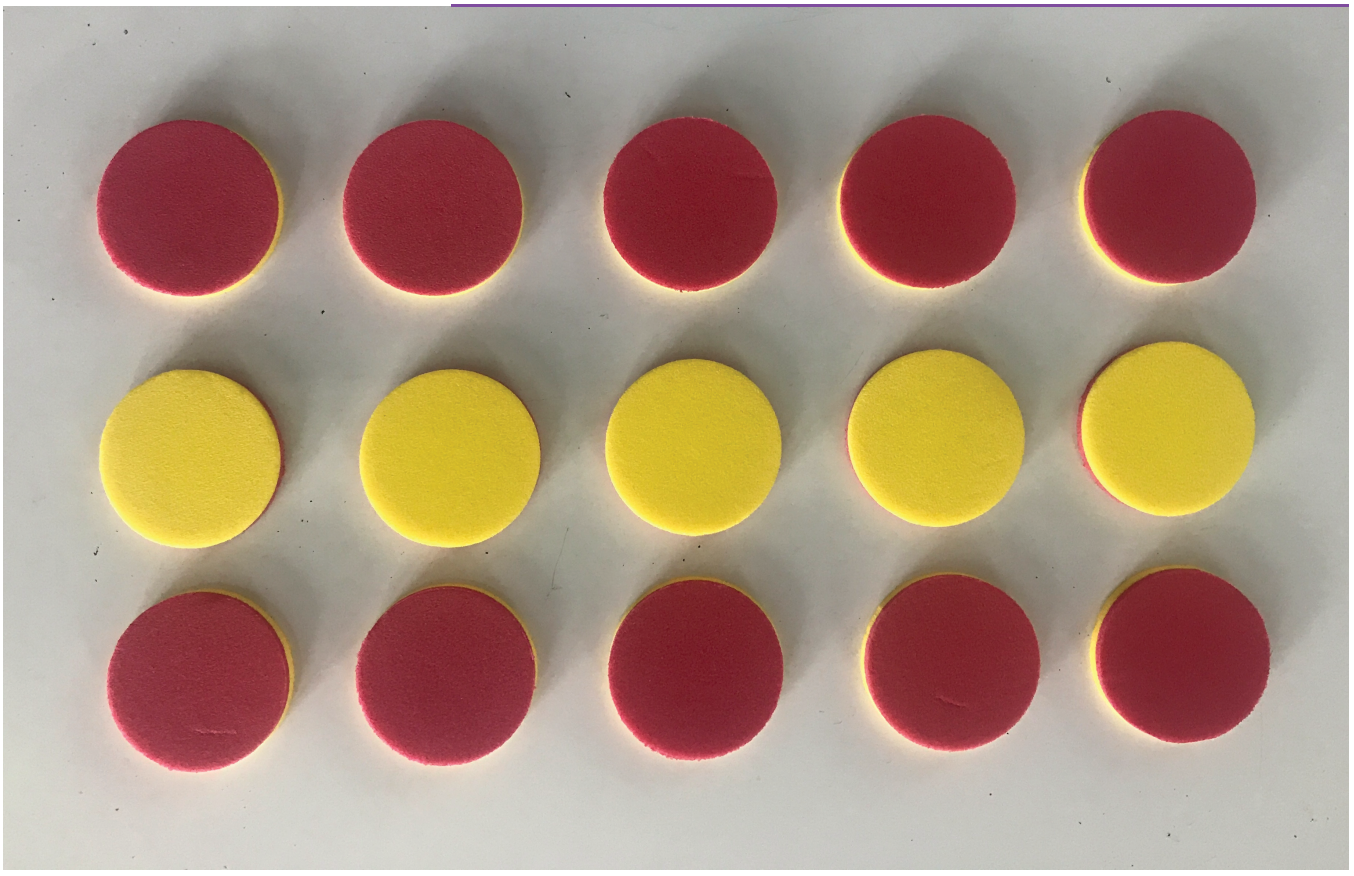
3. Split this rectangle into equal-size squares.

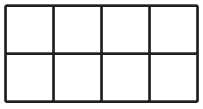


a. Write 2 equations to represent the total number of squares.

Images for Activity Synthesis







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