

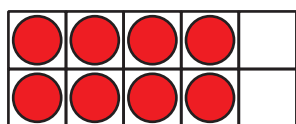
Lesson 11: Arrays and Rectangles

- Let's make arrays and rectangles using tiles.

Warm-up: Which One Doesn't Belong: All Kinds of Arrays

Which one doesn't belong?

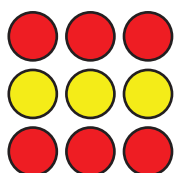
A



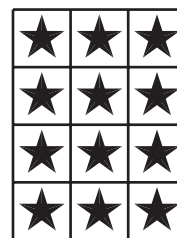
B



C



D



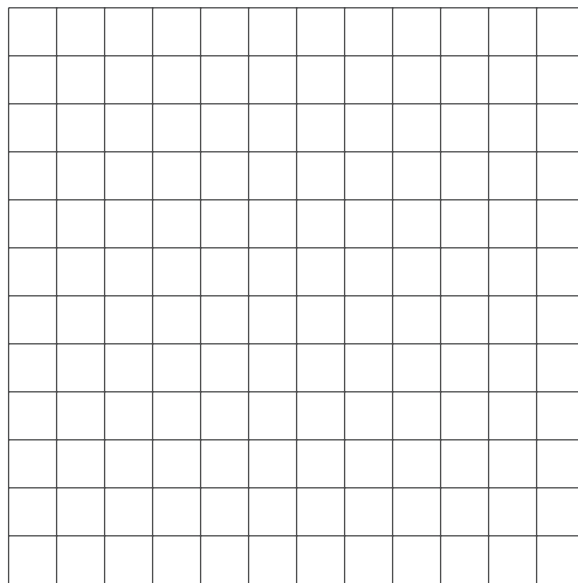
11.1: Use Tiles to Make Arrays

Choose a number of tiles.

12 15 16 18 20

Arrange all the tiles in an array. Then push them together to make a rectangle.

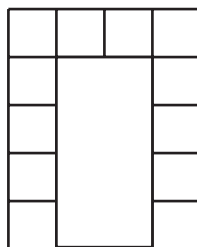
1. Shade in the same arrangement of squares on the grid paper.



2. How many rows of squares does your rectangle have? _____
3. How many columns does your rectangle have? _____
4. How many tiles are in your rectangle? _____
5. Write 2 equations to represent the number of squares in your rectangle.

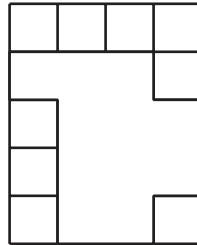
11.2: Make Equal-size Squares

1. a. Draw lines so that the rectangle is completely filled with equal-size squares.



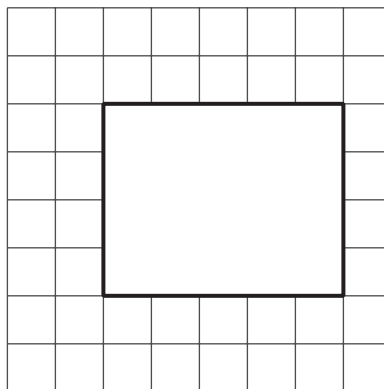
- b. Color the rows different colors.
- c. How many rows of equal-size squares are there?
- d. How many squares are in each row?
- e. Write an equation to represent the sum of the squares in each row.

2. a. Draw lines so that the rectangle is completely filled with equal-size squares.



- b. Color the columns different colors.
- c. How many columns of equal-size squares are there?
- d. How many squares are in each column?
- e. Write an equation that represents the sum of squares in each column.

3. a. Draw lines so that the rectangle is completely filled with equal-size squares.



- b. How many columns of equal-size squares are there? How many squares are in each column?
- c. How many rows of equal-size squares are there? How many squares are in each row?
- d. Write 2 equations to represent the number of equal-size squares in the rectangle.