

# Rectangles with Color Tiles



**Materials:** square inch color tiles

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1. Count out 12 square inch color tiles. How many different rectangles can you construct with an area of 12 square inches?
2. Draw a table with the headings: Rectangle, Number of Rows, Number of Columns, and Area. Draw each rectangle. Record your data.

Rectangle	Number of Rows	Number of Columns	Area

3. How can you be sure that you have made all possible rectangles with an area of 12 square inches? Explain your thinking.
4. Choose one of the following numbers: 16, 18, or 20. Investigate how many different rectangles you can construct with this number of square inch color tiles. Record your data in a table.