With a partner, construct rectangles that have the following number of tiles. On graph paper, draw the rectangles and label each side of the rectangle according to its length.

( 1 square on graph paper = 1 tile)

**Make as many different sized rectangles as you can with a given number of tiles.**

Construct rectangles with the following number of tiles:

1. 12
2. 20
3. 45
4. 32
5. 17
6. 25
7. 11

Answer the following questions on a piece of notebook paper.

1. What do you notice about some of the numbers?
2. Are some numbers capable of making more rectangles than others?
3. If you answered yes in question #2, than why do you suppose this is true?