



Multiples of a Number

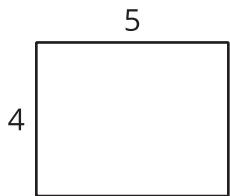
Let's build some rectangles.

Warm-up

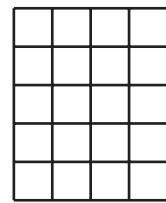
Which Three Go Together: All Kinds of Area

Which 3 go together?

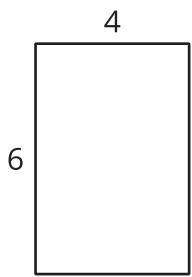
A



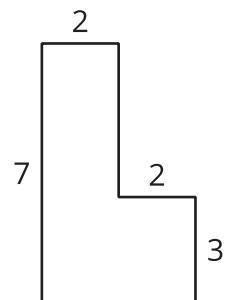
B



C



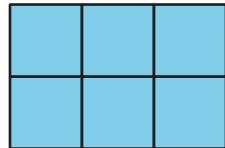
D



Activity 1

Build Rectangles and Find Area

1. Build 5 different rectangles with each of the given widths.
Record the area of each rectangle in the table.



	area of rectangle				
2 tiles wide					
3 tiles wide					
4 tiles wide					

2. Discuss with a partner what you notice about the areas in each row of the table.
3. Predict the area of another rectangle that has each width. Explain your reasoning.

- 2 tiles:

- 3 tiles:

- 4 tiles:

Activity 2

What Areas Can You Build?

1. Elena builds rectangles with a width of 3 units and an area of 30 square units or less.
 - a. Build the rectangles Elena could make and draw the rectangles on grid paper. Label the area and the side lengths of each rectangle.
 - b. What is the area of each rectangle you built?
 - c. What do you notice about the areas?
2. Why is 28 square units not a possible area for a rectangle with a width of 3 units?

3. Elena decides that the area of the rectangle can be more than 30 square units. Find 2 other areas it could have. Explain or show your reasoning.
4. What is an area that is *not* possible for a rectangle with a width of 3 units? Explain or show your reasoning.