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Grade 4 Unit 1
Lesson 2
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Unit 1 Lesson 2: Factor Pairs

WU Number Talk: Multiplication (Warm up)

Student Task Statement

Find the value of each expression mentally.

- 2×7
- 4×7
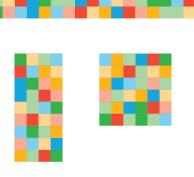- 3×7
- 7×7

1 How Many Rectangles?

Student Task Statement

Your teacher will assign 2 numbers to your group. Each number represents the area of a rectangle.

1. On grid paper:

   - Draw all the possible rectangles that have the given area.
   - Label the area and the side lengths.
   - Use each pair of side lengths only once.

     (For example, if you draw a rectangle with 4 units across and 6 units down, you don't need to also draw a rectangle with 6 units across and 4 units down because they have the same pair of side lengths.)

2. When you think you've drawn all the possible rectangles for both areas, cut out your rectangles and put them on a poster for each area you were assigned.
3. Display your poster for all to see.

2 How Many Rectangles: Gallery Walk

Student Task Statement

As you visit each poster, discuss with your partner:

1. What do you notice? Use the following sentence frames when you share:
   a. "I notice that some of the posters . . . ."
   b. "I notice the posters for numbers _____ and _____ are alike because . . . ."
2. How do you know that all possible rectangles were found for the given area?