How Many Rows? How Many in Each Row?

Multiplication Arrays

3.OA.1 (Interpret products of whole numbers) **3.OA.7 (Fluently multiply within 100)**

You Need

- two players
- one die
- recording sheet for game (one 10x10 grid for each player)

How to Play

Player A rolls a die two times. The first roll determines the number of rows and the second roll determines the number of squares in each row. Player A draws a rectangle that corresponds to the rolls in any location on the grid on the recording sheet, then writes the number sentence (for example, 3x4 = 12) in the rectangle.

Player B rolls the die twice. Again, the first roll determines the number of rows and the second roll determines the number of squares in each row. Player B draws the rectangle that corresponds to the rolls in any location on the other grid, then writes the number sentence in the rectangle.

Players take turns.

Each rectangle drawn cannot overlap a previous rectangle. Each player continues until he or she is unable to place a rectangle on the grid. At that stage, the player records both the total number of squares covered by rectangles on the grid, as well as the number of uncovered squares.

Variation: After rolling the die twice to determine a product, the player can make any rectangle that covers that number of squares. **Example:** If player rolls a 3 and a 4 they can draw a rectangle with the dimensions, 2 X 6 or 3 X 4, note: a 1 X 12 could extend beyond the game board.

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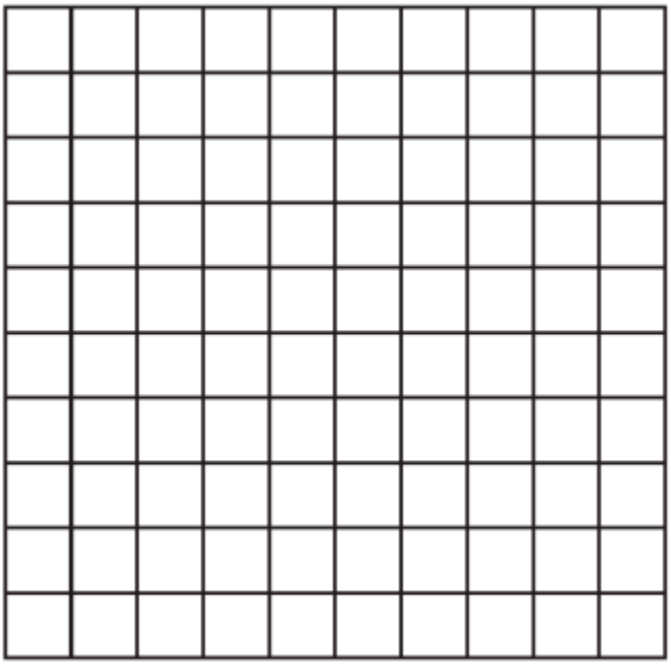
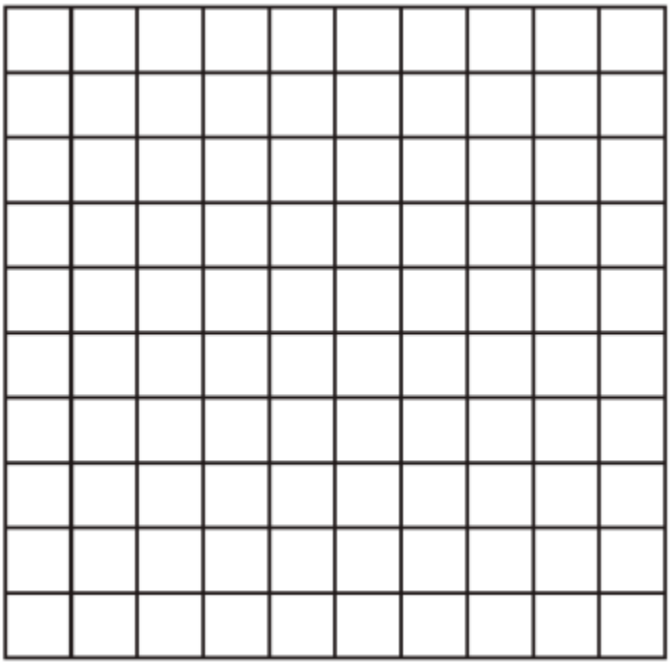


Covered_____

Uncovered_____



Covered_____

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