Unit 2, Lesson 8

Area of a Rectangle without a Grid

Let's solve area problems, without a grid.

Warm-up

How Many Do You See: One More, One Less

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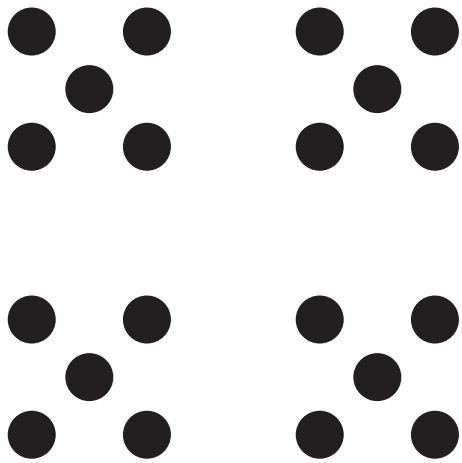
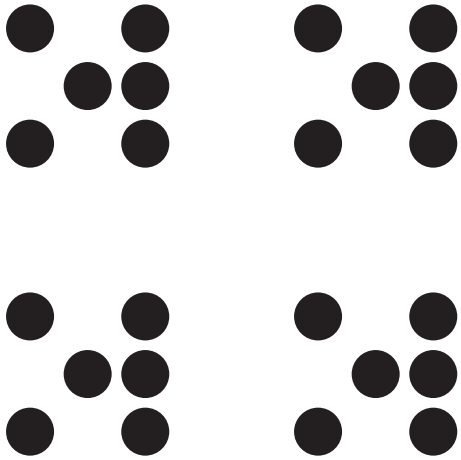
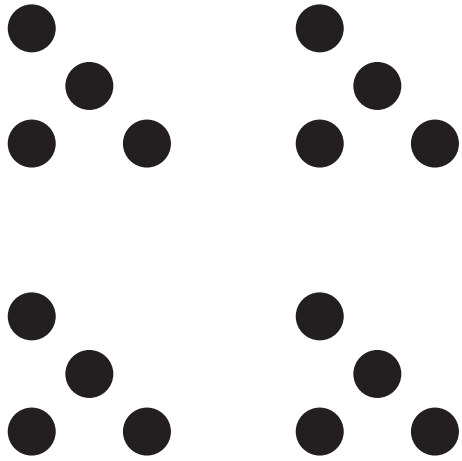
Illustrative Mathematics®

How many do you see? How do you see them?







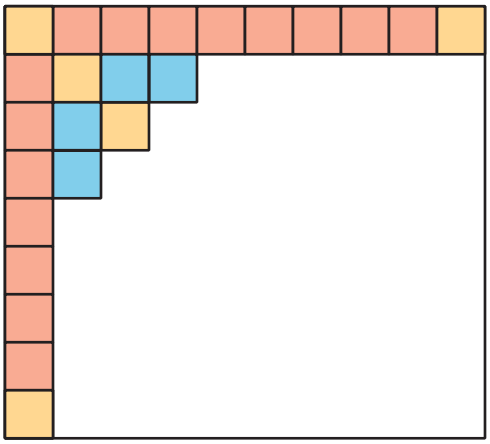
Activity 1

Partially Tiled

What do you notice? What do you wonder?

After learning about *azulejos* (ah-soo-LAY-hohs) in Portugal, Elena is making her own tile artwork. This rectangle shows the project Elena is tiling. Each square tile has a side length of 1 inch.

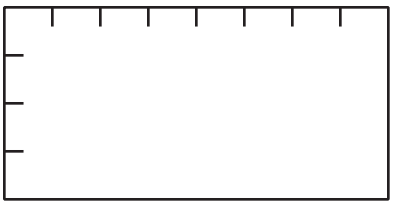
How many tiles are needed to tile the whole rectangle? Explain or show your reasoning.



Activity 2

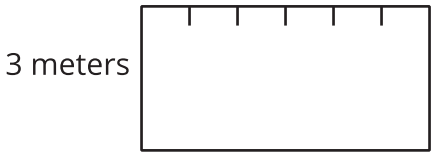
No More Squares

1. The tick marks on the sides of this rectangle are 1 meter apart.



What is the area of the rectangle in square meters?

2. The top side of this rectangle is marked off in meter lengths. The left side is labeled with the length in meters.



What is the area of the rectangle in square meters?