



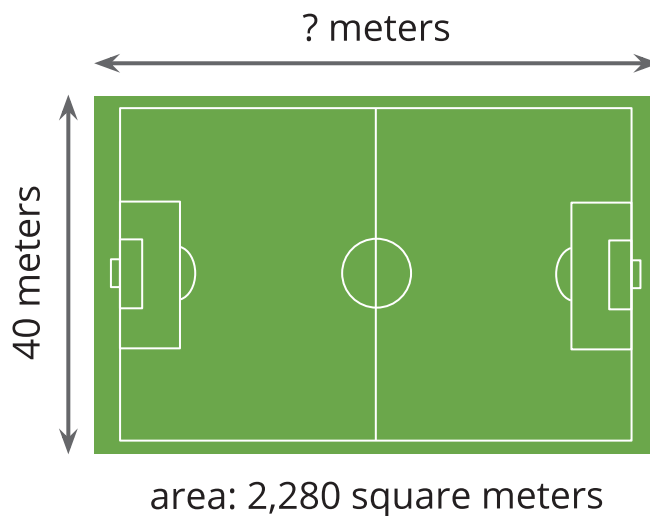
# Situations Involving Area

Let's divide to find the side length of a rectangle.

## Warm-up

### Estimation Exploration: Area of a Soccer Field

Estimate: What is the length of the soccer field in meters?



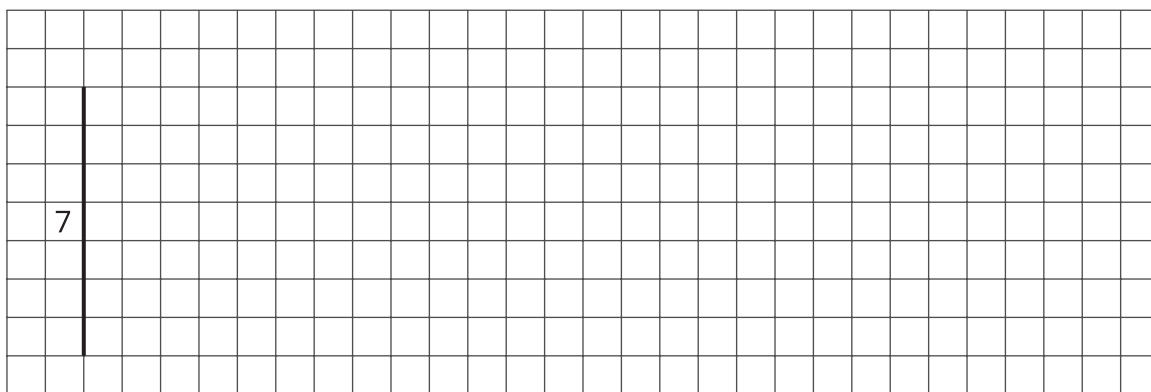
Record an estimate that is:

| too low | about right | too high |
|---------|-------------|----------|
|         |             |          |

## Activity 1

### Elena's Mural

Elena uses 189 square tiles to create a rectangular mural for the art club. The mural is 7 tiles wide.



1. How many tiles long is Elena's mural? Explain or show your reasoning.
2. Write one or more equations that show how you solved this problem.

## Activity 2

### Tyler's Mural

Tyler is also creating a rectangular mural for the art club. He has 197 tiles for his mural. He wants the mural to be 6 tiles wide with no gaps or overlaps between the tiles.

1. Will Tyler use all of his tiles in the mural? Explain your reasoning.

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2. How many tiles long will Tyler's mural be? Show your thinking using diagrams, symbols, or other other representations.