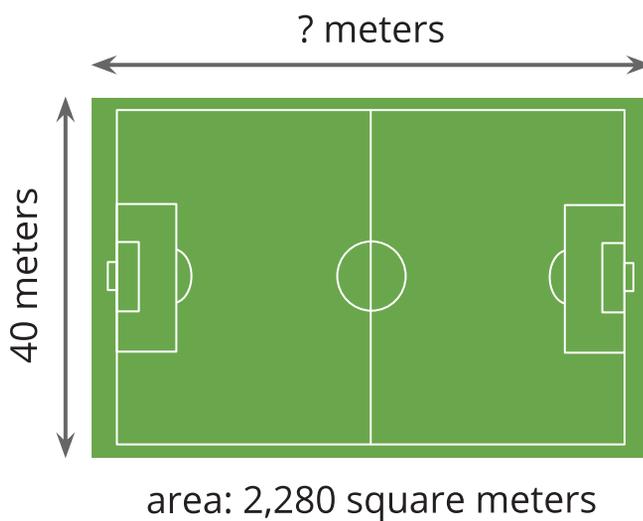# Lesson 15: Situations Involving Area

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

Warm-up: Estimation Exploration: Area of a Soccer Field

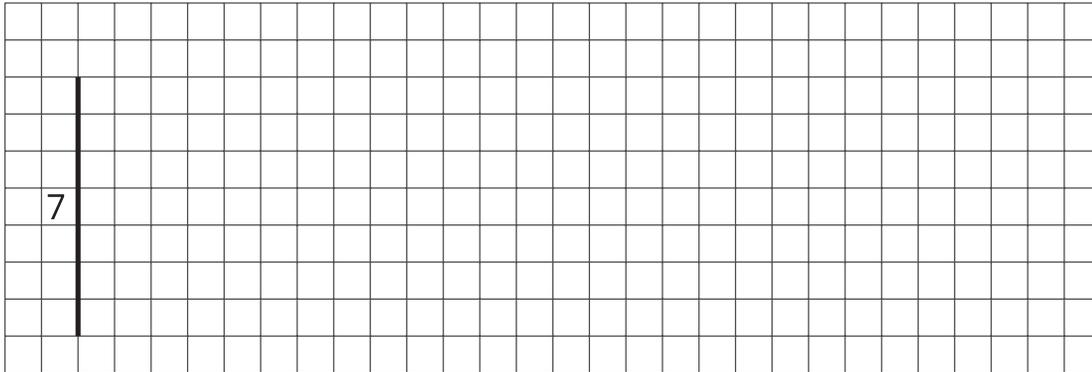Estimate: What is the length of the soccer field in meters?

? meters

40 meters

area: 2,280 square meters

Record an estimate that is:

too low	about right	too high

15.1: Elena's Mural

Elena used 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? Be prepared to explain or show how you know.

2. Write one or more equations that show how you solved this problem.

15.2: Tyler's Mural

Tyler is also creating a rectangular mural for the art club. He has 197 tiles for his mural. His mural is 6 tiles wide.

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

2. How many tiles long is Tyler's mural? Show your reasoning using numbers, pictures, or words.