

## Problem 35

Soccer fields vary in size. A large soccer field is 115 m long and 85.0 m wide. What is its area in square feet? (Assume that 1 m = 3.281 ft.)

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### Solution

Multiply the dimensions together to get the area and then multiply by the appropriate conversion factors to get the desired units.

$$A = 115 \text{ m} \times 85.0 \text{ m} \times \frac{3.281 \text{ ft}}{1 \text{ m}} \times \frac{3.281 \text{ ft}}{1 \text{ m}} \approx 1.05 \times 10^5 \text{ ft}^2$$