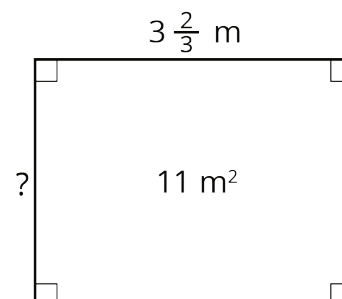


## Lesson 10 Practice Problems

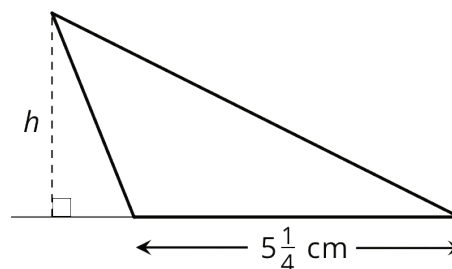
1. a. Find the unknown side length of the rectangle if its area is  $11 \text{ m}^2$ . Show your reasoning.



- b. Check your answer by multiplying it by the given side length ( $3\frac{2}{3}$ ). Is the resulting product 11? If not, revise your previous work.
2. A worker is tiling the floor of a rectangular room that is 12 feet by 15 feet. The tiles are square with side lengths  $1\frac{1}{3}$  feet. How many tiles are needed to cover the entire floor? Show your reasoning.
3. The area of a rectangle is  $17\frac{1}{2} \text{ in}^2$  and its shorter side is  $3\frac{1}{2} \text{ in}$ . Draw a diagram that shows this information. What is the length of the longer side?

4. The triangle has an area of  $7\frac{7}{8}$  cm<sup>2</sup> and a base of  $5\frac{1}{4}$  cm.

What is the length of  $h$ ? Explain your reasoning.



5. Find the value of  $\frac{5}{32} \div \frac{25}{4}$ . Show your reasoning.

(From Unit 3, Lesson 7.)

6. A builder is building a fence with  $6\frac{1}{4}$ -inch-wide wooden boards, arranged side-by-side with no gaps or overlaps. How many boards are needed to build a fence that is 150 inches long? Show your reasoning.

(From Unit 3, Lesson 9.)