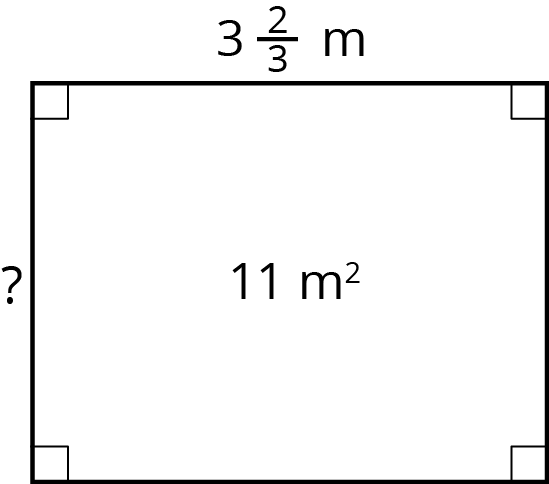
## Unit 4 Lesson 13 Cumulative Practice Problems

* 1. Find the unknown side length of the rectangle if its area is 11 m2. Show your reasoning.
  + 
  1. Check your answer by multiplying it by the given side length (). Is the resulting product 11? If not, revise your previous work.

1. A worker is tiling the floor of a rectangular room that is 12 feet by 15 feet. The tiles are square with side lengths feet. How many tiles are needed to cover the entire floor? Show your reasoning.



1. A television screen has length inches, width inches, and area 462 square inches. Select **all** the equations that represent the relationship of the side lengths and area of the television.
2. The area of a rectangle is  in2 and its shorter side is in. Draw a diagram that shows this information. What is the length of the longer side?
3. A bookshelf is 42 inches long.
   1. How many books of length inches will fit on the bookshelf? Explain your reasoning.
   2. A bookcase has 5 of these bookshelves. How many feet of shelf space is there? Explain your reasoning.

* (From Unit 4, Lesson 12.)

1. Find the value of . Show your reasoning.

* (From Unit 4, Lesson 11.)

1. How many groups of are in each of these quantities?

* (From Unit 4, Lesson 6.)

1. It takes minutes to fill a 3-gallon bucket of water with a hose. At this rate, how long does it take to fill a 50-gallon tub? If you get stuck, consider using a table.

* (From Unit 2, Lesson 14.)



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