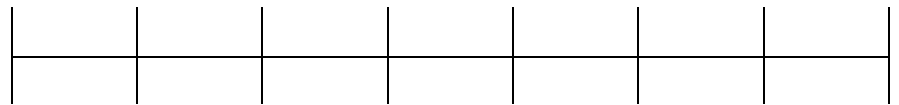# Notes: Approximating Square Roots

You are designing a booth for a comic convention. The booth is 7 ft wide and 6 ft deep. You plan to place a square rug in the booth, parallel to the walls. Each side of the rug is $\sqrt{33}$ ft long. Will the rug fit?
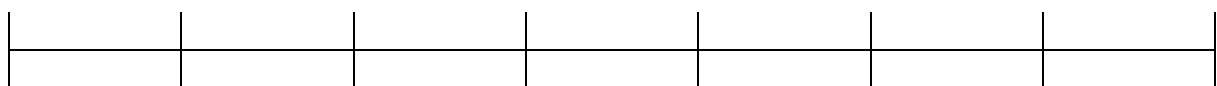
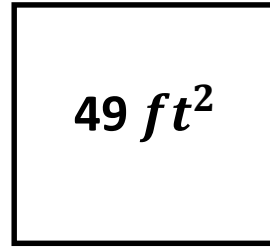On a number line, between which two consecutive whole numbers would $\sqrt{70}$ be located?

The square root of an integer n is between 9 and 10. What are all the possible values for n? Explain.

$\sqrt{?}$

What is $\sqrt{50}$ to the nearest tenth?

What is the perimeter of this square?

$$49\ ft^2$$

In your booth there is a square-shaped table. The table has an area of 26 ft². You want to hang a table skirt along the edge of the table. Approximately how long must the skirt be to wrap around the perimeter of the table?

(Don't forget to draw a picture!)

A square has an area of 112 cm². What is the approximate perimeter of the square?