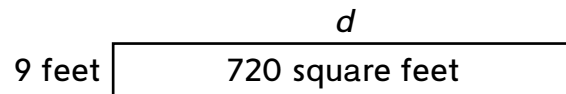


Solving Area Problems with Unknown Side Lengths



Solve.

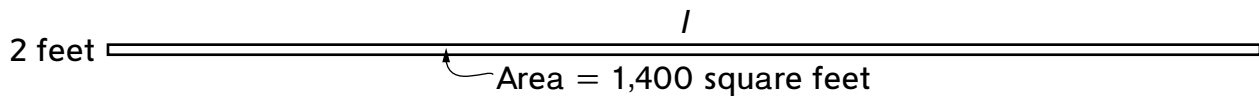
- 1 What is the length of side d ?



Equation with unknown: Sample answer: $720 \div 9 = d$

Answer: 80 ft

- 2 How long is side l ?



Equation with unknown: Sample answer: $2 * l = 1,400$

Answer: 700 ft

- 3 The library has rectangular tables in many sizes. Using the information given, complete the chart.

Table	Length (ft)	Width (ft)	Area (sq ft)
A	5	6	30
B	3	8	24
C	6	8	48
D	100	4	400

- 4 Leslie's new picture frame has a width of 30 centimeters and an area of 2,100 square centimeters. How long is the frame?

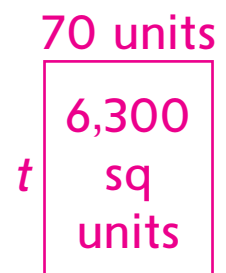
Equation with unknown: Sample answer: $2,100 / 30 = l$

Answer: 70 cm

Try This

- 5 The area of a rectangle is 6,300 square units. One side is 70 units. Draw a diagram and write an equation to show how to find the unknown side length.

Diagram: Sample answer:



Equation with unknown: Sample answer: $6,300 / 70 = t$

Answer: 90 units