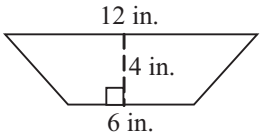
NAME_____

Module 13 **Perimeter, Area, and Volume**
Lesson 2 **Area**

Additional Practice 13.2

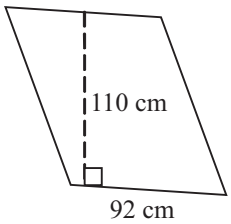
Find the area.

1.



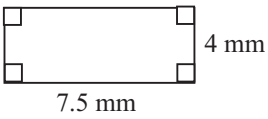
36 in.^{2}

2.



10,120 cm^2

3.



30 mm^2

4. Circle C

About 1,017.36 ft^2

5. A square patio has an area of 64 square feet. What is the perimeter of the patio?

The perimeter of the patio is 32 feet.

6. A circle has a radius of 35 inches. A square has sides each 63 inches long. Which figure has the greater area? How much greater?

The area of the square is about 122.5 square inches greater than the area of the circle.

7. Rita knows that the perimeter of a rectangular table top is 16 feet. If the dimensions are whole numbers, what is the greatest possible area for the table top? What is the least possible area for the table top? Give the dimensions that produce each area.

Least possible area: 7 ft^2; dimensions: 1 ft by 7 ft
Greatest possible area: 16 ft^2; dimensions: 4 ft by 4 ft

8. Using only whole-number dimensions, what is the greatest possible perimeter for a rectangle whose area is 52 square feet? What is the least possible perimeter?

Greatest: 106 feet; Least: 34 feet