

# Area of Squares and Rectangles

You can use formulas to find the area of a square or rectangle.

Find the area of a square that is 7.2 m on each side.

Find the area of a rectangle with a length ( $l$ ) of 4 cm and a width ( $w$ ) of 12 cm.

Use the formula  $A = s^2$ .

Use the formula  $A = l \times w$ .

$$A = (7.2)^2$$

$$A = 4 \times 12$$

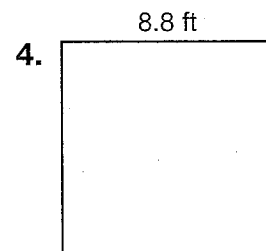
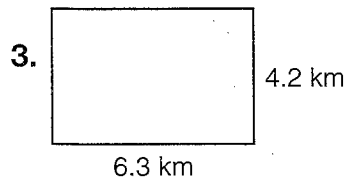
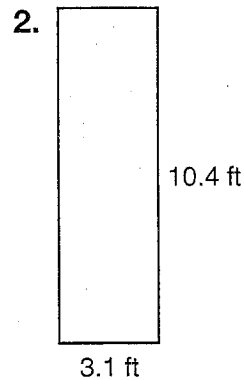
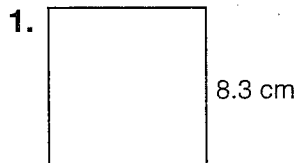
$$A = 51.84$$

$$A = 48$$

The area is 51.84 m<sup>2</sup>.

The area is 48 cm<sup>2</sup>.

Find the area of each figure.

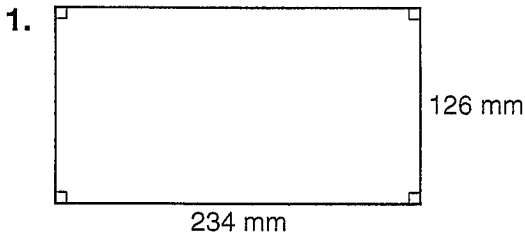


5. **Reasoning** What is the length of a rectangle that has an area of 120 ft<sup>2</sup> and a width of 8 ft? \_\_\_\_\_

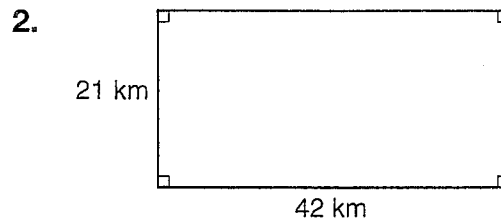
6. **Number Sense** What is the area of a square that is 12.4 cm on each side? \_\_\_\_\_

# Area of Squares and Rectangles

Find the area of each figure.



\_\_\_\_\_



\_\_\_\_\_

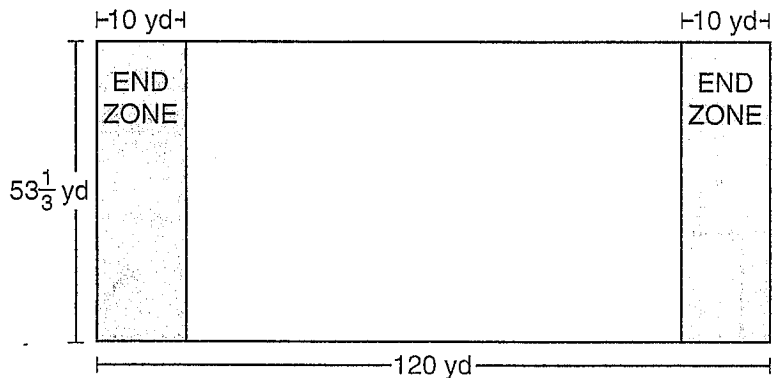
The rules state that the length of a soccer field must be no greater than 130 yd and no less than 100 yd. The width cannot be greater than 100 yd nor less than 50 yd.

3. According to the rules, what is the maximum area of a soccer field? \_\_\_\_\_
4. According to the rules, what is the minimum area of a soccer field? \_\_\_\_\_

A professional football field is shown.

5. What is the area of the whole field?  
\_\_\_\_\_

6. What is the area of each end zone?  
\_\_\_\_\_



7. What is the area of the field, not including the end zones? \_\_\_\_\_

## Test Prep

8. Which is the area of a square with sides of 11.1 km?  
 A. 124 km<sup>2</sup>      B. 123.7 km<sup>2</sup>      C. 123.21 km<sup>2</sup>      D. 122.52 km<sup>2</sup>
9. **Writing in Math** If you know the perimeter of a rectangle but not the length of its sides, can you calculate its area? Explain.  
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