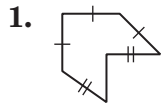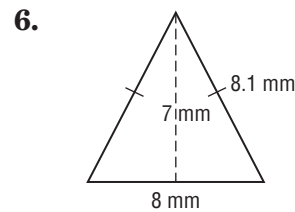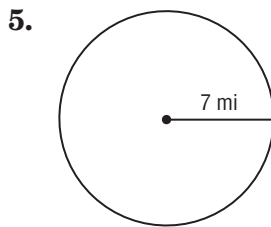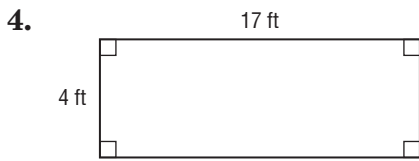## 1-6 Practice

Two-Dimensional Figures

Name each polygon by its number of sides and then classify it as *convex* or *concave* and *regular* or *irregular*.

1.

2.

3.
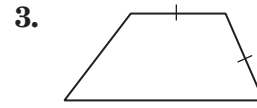
Find the perimeter or circumference and area of each figure. Round to the nearest tenth.

4. 17 ft 4 ft

5. 7 mi

6. 8.1 mm 7 mm 8 mm

COORDINATE GEOMETRY Graph each figure with the given vertices and identify the figure. Then find the perimeter and area of the figure.

7. $O(3, 2)$, $P(1, 2)$, $Q(1, -4)$, $R(3, -4)$

8. $S(0, 0)$, $T(3, -2)$, $U(8, 0)$

CHANGING DIMENSIONS Use the rectangle from Exercise 4.

9. Suppose the length and width of the rectangle are doubled. What effect would this have on the perimeter? Justify your answer.

10. Suppose the length and width of the rectangle are doubled. What effect would this have on the area? Justify your answer.

11. SEWING Jasmine plans to sew fringe around the circular pillow shown in the diagram.

5 in.

a. How many inches of fringe does she need to purchase?

b. If Jasmine doubles the radius of the pillow, what is the new area of the top of the pillow?