Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_\_\_\_\_\_\_\_

Activity Sheet 4-1

# Dilating Perimeter and Area

Directions: This Activity will allow you to practice measuring perimeter (to nearest mm) and calculating area of shapes. After you find the perimeter and area of each shape dilate each perimeter and area using a scale factor of 2, 3, 4, and 5. Write answers with correct units in blanks.

1. 2.

Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Scale factor: Perimeter Area Scale factor: Perimeter Area**

k=2 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=2 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=3 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=3 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=4 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=4 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=5 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=5 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

3. 4.

Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Scale factor: Perimeter Area Scale factor: Perimeter Area**

k=2 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=2 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=3 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=3 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=4 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=4 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=5 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=5 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

5. 6.

Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Scale factor: Perimeter Area Scale factor: Perimeter Area**

k=2 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=2 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=3 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=3 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=4 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=4 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=5 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=5 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

7. 8.

Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Circumference: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Scale factor: Perimeter Area Scale factor: Circumference Area**

k=2 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=2 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=3 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=3 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=4 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=4 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

k=5 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ k=5 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_