DATE

## **Lesson 4 Skills Practice**

## Dilations

Find the coordinates of the vertices of each figure after a dilation with the given scale factor k. Then graph the original image and the dilation.



**3.** P(-3, 3), Q(6, 3), R(6, -3), S(-3, -3); $k = \frac{1}{3}$ 



**4.** A(2, 1), B(3, 0), C(1, -2); k = 3



- **5. PHOTOS** Kiesha used a photo that measured 4 inches by 6 inches to make a copy that measured 8 inches by 12 inches. What is the scale factor of the dilation? **2**
- 6. MODELS David built a model of a regulation basketball court. His model measured approximately 3.75 feet long by 2 feet wide. The dimensions of a regulation court are 94 feet long by 50 feet wide. What is the scale factor David used to build his model? 1/25
- 7. BLUEPRINTS On the blueprints of Mr. Wong's house, his great room measures 4.5 inches by 5 inches. The actual great room measures 18 feet by 20 feet. What is the scale factor of the dilation? 48