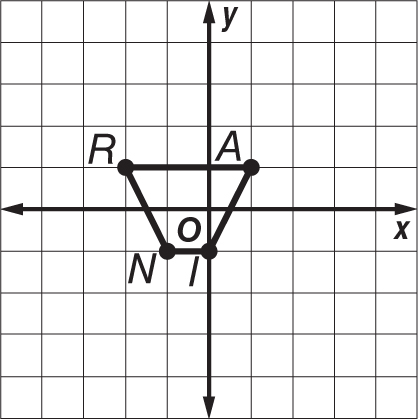
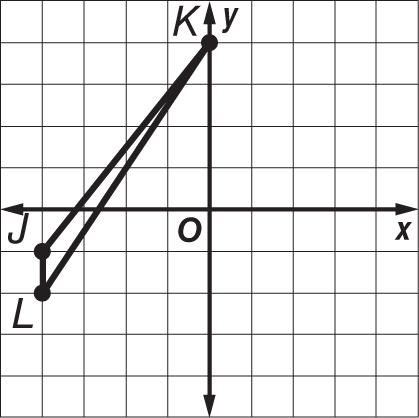
**Lesson 4 Skills Practice**

***Dilations***

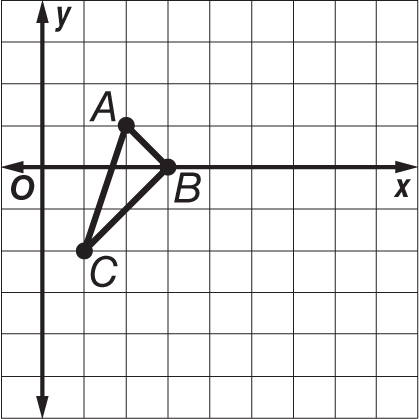
**Find the coordinates of the vertices of each figure after a dilation with the given scale factor *k*. Then graph the original image and the dilation.**

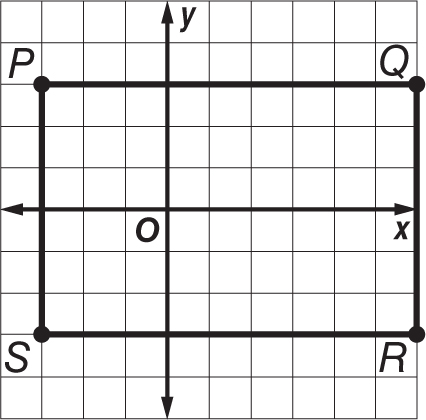
**1.** *J*(–4, –1), *K*(0, 4), *L*(–4, –2); **2.** *R*(–2, 1), *A*(1, 1), *I*(0, –1), *N*(–1, –1); *k* = 2





**3.** *P*(–3, 3), *Q*(6, 3), *R*(6, –3), *S*(–3, –3); **4.** *A*(1, –2), *B*(2, 1), *C*(3, 0); *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?

**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?

**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?