Ν	J	Δ	Ν	Λ	F	

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); $k = \frac{1}{3}$

P		4	y			Q
╉		0				•
						_
S						R
			,			

4.	A(1,	-2),	<i>B</i> (2,	1),	<i>C</i> (3,	0);	k = 3
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-	y						
		Α					
			$\$				
0				Β			x
		\checkmark					
		C					
1							

- 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?