

your partner. Determine which player will go first. Player 1 will flip a card over and place it in the Original Figure box. Player 1 will then flip another card over and place it in the Dilated Figure box. Determine the scale factor that was used to dilate the figure. The scale factor is the number of points that Player 1 will receive. Return the cards face down to the pile. Shuffle the cards. Repeat the process for Player 2.					
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Round 3 Round 4 Round 5	Round 1				
Round 4 Round 5	Round 2				
Round 5	Round 3				
	Round 4				
Total Points	Round 5		2		
	Total Points			0	
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	Communicating	a About Mathema	itics		
Communicating About Mathematics				vas used to d	ilate the figures.
Communicating About Mathematics Describe how you determined the scale factor that was used to dilate the figures.		9			
	The state of the s	8			
		8	(40)		



Student Name:	Date:

Rectangle Riddles

For each rectangle below, use the scale factor to determine the missing measurements. Use the Answer Bank to help you if necessary. Each value in the Answer Bank will only be used once.

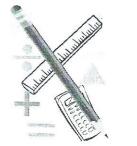
		Answe	r Bank		
8	12	15	16	21	30

Dilated Rectangles

Original Dimensions	Scale Factor	New Dimensions
6 cm by cm	$2\frac{1}{2}$	cm by 20 cm
cm by 24 cm	$\frac{2}{3}$	20 cm by cm
cm by 16 cm	1 3 4	cm by 28 cm

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Describe how you determined the placement of the last two numbers in the table above.





Dilation Cards

Cut along the dotted lines.

