



Student Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Scale Factor Recording Sheet

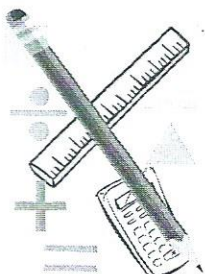
1. Place the **Dilation Cards** face down between you and your partner.
2. Determine which player will go first.
3. Player 1 will flip a card over and place it in the Original Figure box.
4. Player 1 will then flip another card over and place it in the Dilated Figure box.
5. Determine the scale factor that was used to dilate the figure. The scale factor is the number of points that Player 1 will receive.
6. Return the cards face down to the pile. Shuffle the cards.
7. Repeat the process for Player 2.
8. Continue for 5 rounds. At the end of 5 rounds, the person with the greatest number of points is the winner.

<b>Original Figure</b>
<b>Dilated Figure</b>

	Player 1 Points	Player 2 Points
Round 1		
Round 2		
Round 3		
Round 4		
Round 5		
Total Points		

#### Communicating About Mathematics

Describe how you determined the scale factor that was used to dilate the figures.




---



---



---



---



---



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.

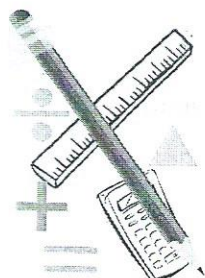
Answer Bank					
8	12	15	16	21	30

### 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	$1\frac{3}{4}$	_____ cm by 28 cm

### Communicating About Mathematics

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




---



---



---



---



---



## Dilation Cards

*Cut along the dotted lines.*

