

Name \_\_\_\_\_

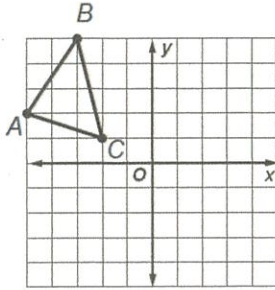
Date \_\_\_\_\_

Mrs. Rombos

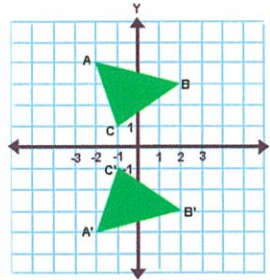
8R Period \_\_\_\_\_

Homework Day 3

1. Triangle ABC is translated 4 units right and 4 units down. What are the coordinates of A'?



2. The figures below are transformations of one another. How was the triangle in Quadrants I & II transformed to make the triangle in Quadrants III & IV?



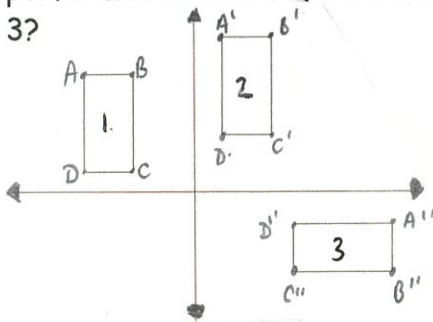
3. What are the coordinates of B', the image of B(0, 8) after a dilation with a scale factor of 4?

4. What is the image of (3, 10) under a dilation of 5?

5. Under what type of transformation is size not preserved?

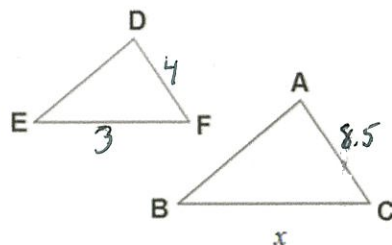
6. Point A has coordinates (3, 7). After a dilation, the coordinates of point A' are (15, 35). What is the scale factor for the dilation?

7. Which sequence of transformations is performed so that Figure 1 is congruent to figure 3?

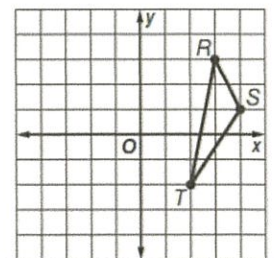


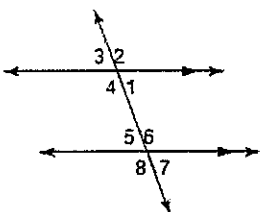
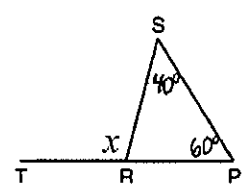
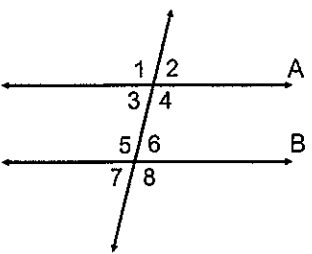
8. What is the image of Point A(6,4) when rotated 180° about the origin?

9. Find the missing side length, x, to the nearest tenth.



10. If you translate the figure four units left and two units down, what are the coordinates of T'?



<p>11. Write 16,500,000 in scientific notation</p>	<p>12. In scientific notation, what is the sum of:  <math>4.6 \times 10^{-4}</math> and <math>6.23 \times 10^{-5}</math> ?</p>
<p>13. Write <math>4.16 \times 10^{-5}</math> in standard form.</p>	<p>14. Write <math>2.45 \times 10^6</math> in standard form.</p>
<p>15. Evaluate: <math>\frac{4^6}{4}</math></p>	<p>16. Evaluate: <math>7^8 \cdot 7 \cdot 7^{-6}</math></p>
<p>17. Express 0.00000035 in scientific notation</p>	<p>18. In <math>\triangle ABC</math>, the measure of <math>\angle A</math> is <math>25^\circ</math> and the measure of <math>\angle C</math> is <math>90^\circ</math>. What is the measure of <math>\angle B</math>?</p>
<p>19. In the figure below, what is <math>m\angle 5</math> if <math>m\angle 1 = 65^\circ</math>?</p> 	<p>20. What is the value of <math>x</math> in the diagram shown?</p> 
<p>21. Lines A and B are parallel lines. The <math>m\angle 3</math> is <math>85^\circ</math>. Find the <math>m\angle 6</math>.</p> 	<p>22. Solve for <math>x</math>:</p> 