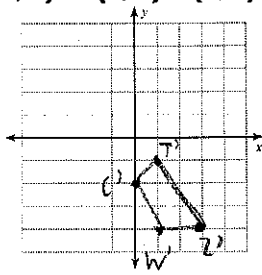
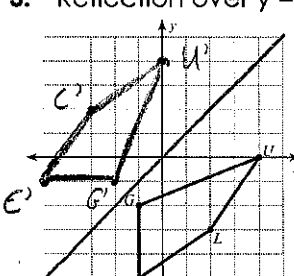
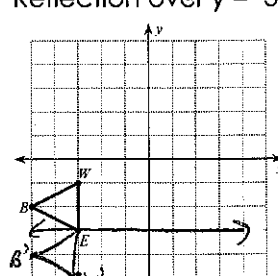
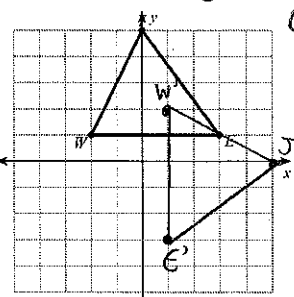
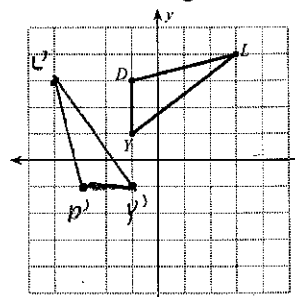
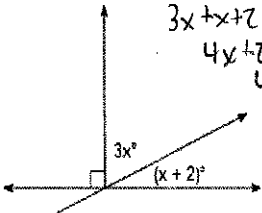
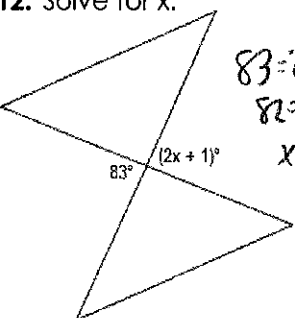
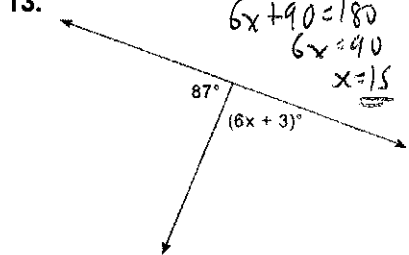
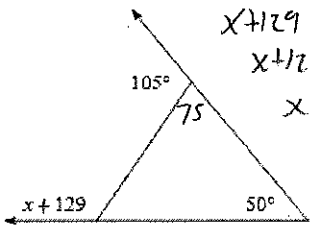
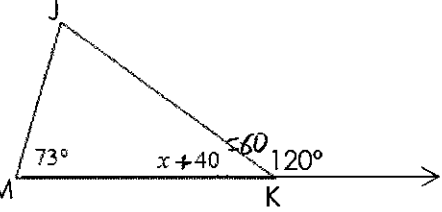
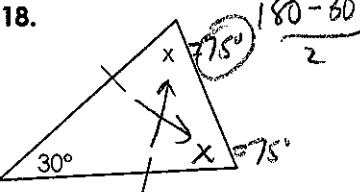
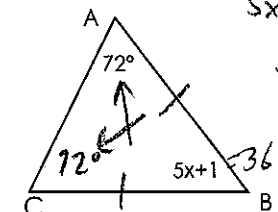


Name: _____

Date: _____

Use the following to review for you test. Work the Practice Problems on a separate sheet of paper.

What you need to know & be able to do	Things to remember	Problem	Problem
Translations	<ul style="list-style-type: none"> Find the new coordinates by adding/ subtracting the given value. Find the pre-image by doing the OPPOSITE. 	<p>1. Translate the following points by the rule: $(x,y) \rightarrow (x+1, y-4)$</p> <p>S (-5, 2) \rightarrow (-4, -2) Y (-4, 5) \rightarrow (-3, 1) R (-1, 1) \rightarrow (0, -3) A (-4, -2) \rightarrow (-3, -6)</p>	<p>2. Translation: $(x, y) \rightarrow (x-2, y-6)$</p> <p>W(3, 2) C(2, 4) T(3, 5) Z(5, 2)</p> 
Reflections	<ul style="list-style-type: none"> Over x-axis: $(x, -y)$ Over y-axis: $(-x, y)$ Over $y = x$: (y, x) Over $y = -x$: $(-y, -x)$ Reflection over any other line: PROTECT THE DISTANCE 	<p>3. Reflection over $y = x$</p> 	<p>4. Reflection over $y = -3$</p> 
Rotations	<ul style="list-style-type: none"> 90CW/270CCW: $(y, -x)$ 180: $(-x, -y)$ 90CCW/270CW: $(-y, x)$ 	<p>5. Rotate the figure 90° CW $(y, -x)$</p> 	<p>6. Rotate the figure 90° CCW $(-y, x)$</p> 
Dilations	<ul style="list-style-type: none"> Multiply the coordinates by the given scale factor (k) 	<p>7. Find the coordinates of the new vertices of the image that has been dilated by a factor of 5.</p> <p>S(-5, 2) \rightarrow (-25, 10) Y (-4, 5) \rightarrow (-20, 25) R (-1, 1) \rightarrow (-5, 5) A (-4, -2) \rightarrow (-20, -10)</p>	<p>8. Find the coordinates of the new vertices of the image that has been dilated by a factor of 1/2.</p> <p>W(3, 2) \rightarrow (3/2, 1) C(2, 4) \rightarrow (1, 2) T (3, 5) \rightarrow (3/2, 5/2) Z (5, 2) \rightarrow (5/2, 1)</p>
Glide Reflections and Combinations of Transformations	<ul style="list-style-type: none"> Glide Reflection: Translation and Reflection Rotation and Reflection ORDER IS IMPORTANT Use the previous ordered pairs to do the next transformation. 	<p>9. Given the points M (-3, 1) S (5, -2)</p> <p>Translate: $(x-3, y+2)$ Reflect: $y = -x$</p> <p>M' \rightarrow (-6, 3) M'' \rightarrow (-3, 6) S' \rightarrow (2, 0) S'' \rightarrow (0, -2)</p>	<p>10. Given the points K (0, -4) P (-6, -3) R (1, 2)</p> <p>Reflect: over the x-axis Rotate: 270 CCW</p> <p>K' \rightarrow (0, 4) K'' \rightarrow (4, 0) P' \rightarrow (-6, 3) P'' \rightarrow (3, 6) R' \rightarrow (1, -2) R'' \rightarrow (-2, -1)</p>

<p>Solving for missing angles</p>	<p>Linear Pair - $\underline{\quad} + \underline{\quad} = 180^\circ$ Supplementary Angles $\underline{\quad} + \underline{\quad} = 180^\circ$ Complementary Angles $\underline{\quad} + \underline{\quad} = 90^\circ$ Vertical Angles $\underline{\quad} = \underline{\quad}$ Alternate Interior Angles $\underline{\quad} = \underline{\quad}$ Alternate Exterior Angles $\underline{\quad} = \underline{\quad}$ Corresponding Angles $\underline{\quad} = \underline{\quad}$ Consecutive Interior Angles $\underline{\quad} + \underline{\quad} = 180^\circ$</p>	<p>11. Solve for x.</p>  <p> $3x + x + 2 = 90$ $4x + 2 = 90$ $4x = 88$ $x = 22$ </p> <p>12. Solve for x.</p>  <p> $83 = 2x + 1$ $82 = 2x$ $x = 41$ </p>	<p>13.</p>  <p> $6x + 90 = 180$ $6x = 90$ $x = 15$ </p> <p>14. One of two supplementary angles is 98° greater than its supplement. Find the measure of both angles.</p> <p> $\angle 1 = x = 41^\circ$ $2x + 98 = 180$ $\angle 2 = x + 98 = 139^\circ$ $2x = 82$ $x = 41$ </p> <p>15. $\angle 1$ and $\angle 2$ are complementary angles. Solve for x and the measure of both angles.</p> <p> $\angle 1 = 7x + 20 = 41^\circ$ $\angle 2 = 17x - 2 = 49^\circ$ $24x + 18 = 90$ $24x = 72$ $x = 3$ </p>
<p>Sum of Interior & Exterior Angles</p>	<p>The sum of all interior angles is 180°. $\angle 1 + \angle 2 + \angle 3 = 180^\circ$</p> <p>The sum of a straight line is 180°.</p>	<p>16. Solve for x = <u>-4</u></p>  <p> $x + 129 = 75 + 50$ $x + 129 = 125$ $x = -4$ </p>	<p>17. Solve for x = <u>20</u> and $\angle J = 47^\circ$</p> 
<p>Base Angles</p>	<p>-If 2 angles in a triangle are congruent, then the sides opposite them are congruent.</p> <p>-If 2 sides in a triangle are congruent, then the angles opposite them are congruent.</p>	<p>18.</p>  <p> $180 - 30$ $\frac{\quad}{2}$ $x = 75$ </p>	<p>19. $\triangle ABC$ is an isosceles triangle with AB and BC as the legs. Solve for x.</p>  <p> $5x + 1 = 36$ $5x = 35$ $x = 7$ </p>
<p>20. Given $m \parallel n$, $m\angle 8 = 123^\circ$, find the measures of all the numbered angles in the figure, and give the reason why (vocab in things to remember)</p> <p> $m\angle 1 = 123^\circ$, $m\angle 2 = 57^\circ$, $m\angle 3 = 57^\circ$ alt. exterior $\&$s cons. interior $\&$s vertical angles with $\&$ 2 </p> <p> $m\angle 4 = 123^\circ$, $m\angle 5 = 123^\circ$, $m\angle 6 = 57^\circ$, $m\angle 7 = 57^\circ$ corresponding $\&$s vertical $\&$s linear pair linear pair </p> 