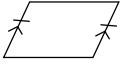

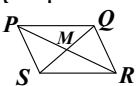
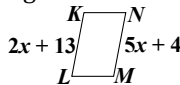
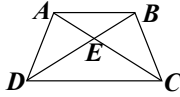
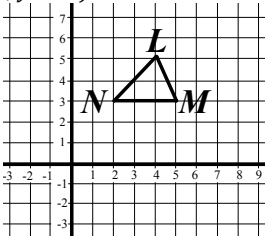
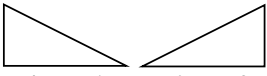
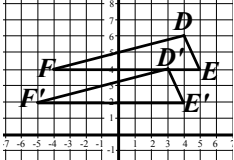
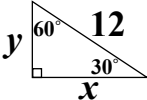


Looking Ahead: Geometry Unit 6 (and miscellaneous)

The questions below are examples of the type of questions you'll see on your **Semester 1 Final**, and the **Semester 2 Final**. This is how these tests will ask you to apply your skills from **Unit 6**, as well as your common sense math skills. They are structured in a way that is deliberately complicated, but the skills are the same as what you have learned up to this point.

Semester 1 Final Examples

1.	<p>What proof do you have that the figure below is a parallelogram?</p> 	6.	<p>Find the measure of each exterior angle of a regular 15-gon.</p>
2.	<p>Parallelogram $ABCD$ has diagonals that cross at E, creating 8 triangles. Which, if any, have to be congruent?</p>	7.	<p>Tell whether the figure is a polygon. If it is a polygon, name it by the number of sides.</p> 
3.	<p>In parallelogram $PQRS$, $QR = 6$, $PM = 4$, and $m\angle RPS = 53.6^\circ$. $PR = ?$</p> 	8.	<p>The rectangular tiles on the floor are 9 in. long and 3 in. wide. If there are 40 tiles on the floor, what is the total area of the tiles?</p>
4.	<p>$KLMN$ is a parallelogram. Find KL.</p> 	9.	<p>Find the length of the line segment with endpoints $(4, 3)$ and $(8, 15)$. Write your answer in the simplest radical form.</p>
5.	<p>Given isosceles trapezoid $ABCD$ with $\overline{AC} \cong \overline{BD}$, $AE = 5.3$, and $BD = 11.4$. Find EC.</p> 	10.	<p>The diagonal of a square is 6 inches. How long is one side?</p>

11.	<p>The sum of the exterior angles of a polygon is half the sum of the interior angles. What type of polygon is it?</p> <ol style="list-style-type: none"> Triangle Quadrilateral Pentagon Hexagon Heptagon Octagon Nonagon 	<p>14. Draw the image of $\triangle LMN$ after the translation $(x, y) \rightarrow (x - 4, y - 5)$</p> 
12.	<p>Identify the transformation from figure 1 to figure 2.</p>  <p style="text-align: center;">Figure 1 Figure 2</p> <ol style="list-style-type: none"> The transformation is a 90° rotation The transformation is a 180° rotation The transformation is a reflection The transformation is a translation 	<p>15. A figure has vertices at $D(4, 6)$, $E(5, 4)$, & $F(-4, 4)$. After a transformation, the image of the figure has vertices at $D'(3, 4)$, $E'(4, 2)$, and $F'(-5, 2)$. Identify the transformation.</p>  <ol style="list-style-type: none"> The transformation is a 90° rotation The transformation is a 180° rotation The transformation is a reflection The transformation is a translation
13.	<p>Find the values of x and y. Express your answers in simplest radical form.</p> 	

Semester 2 Final Examples

16.	<p>What information do you need in order to prove that a figure is a trapezoid?</p>	17.	<p>What information do you need in order to prove that a figure is a rhombus?</p>
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