Date: _____ 27 Name: _____

Geometry Quiz

A. Matching – Vocabulary

Match each vocabulary word in the word list with the definitions given below. **(15 points)**

Word List: Right Triangle, Isosceles Triangle, Right Angle, Polygons, Scalene Triangle, Rhombus, Translation, Equilateral Triangle, Reflection, Acute Triangle, Transformation, Obtuse Triangle, Congruent Figures, Acute Angle, Rotation

1. _____ A triangle that has an obtuse angle.

2. _____ Closed two-dimensional figures whose sides are line segments.

3. _____ A triangle that has two sides and two congruent angles.

4. _____ An angle that measures 90°.

5. _____ Figures that are the same size and shape.

6. _____ A triangle that has three acute angles.

7. _____ A quadrilateral whose four sides have the same length.

8. _____ The sliding of a figure along a straight line.

9. _____ A triangle that has a right angle.

10. _____ Changing a figure into another figure according to a given rule.

11. _____ The movement of a figure flipped with respect to an axis of reflection.

12. _____ A triangle that has no congruent sides or angles.

13. _____ An angle that is less than 90°.

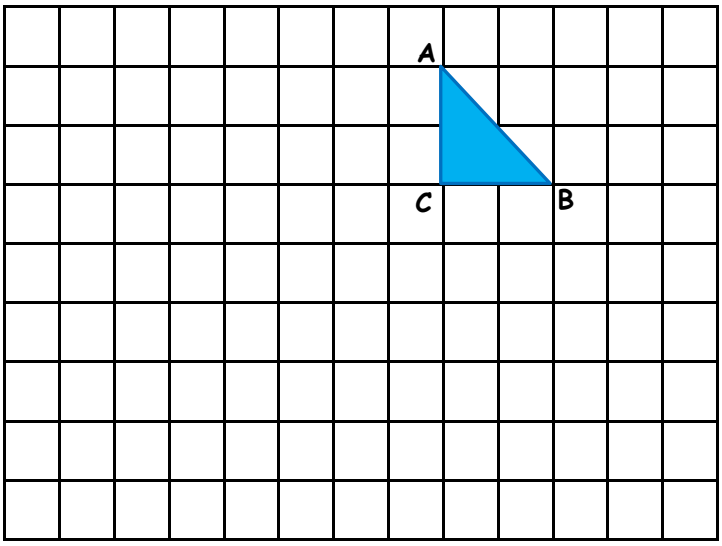
14. _____ A triangle that has three sides and three congruent angles.

15. _____ The movement of a figure around a fixed point.

B. Problems - Transformations

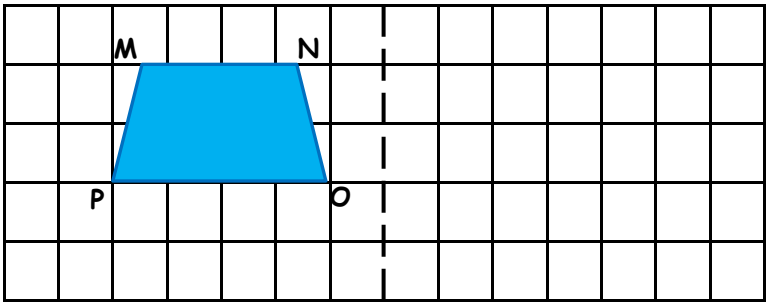
1. Triangle ΔABC is shown on the graph paper below. **(4 points)**

- Draw the image that results from a translation of 3 units to the left and 4 units down.
- Remember to mark each point in the image with a "prime" after the letter, such as "A`".



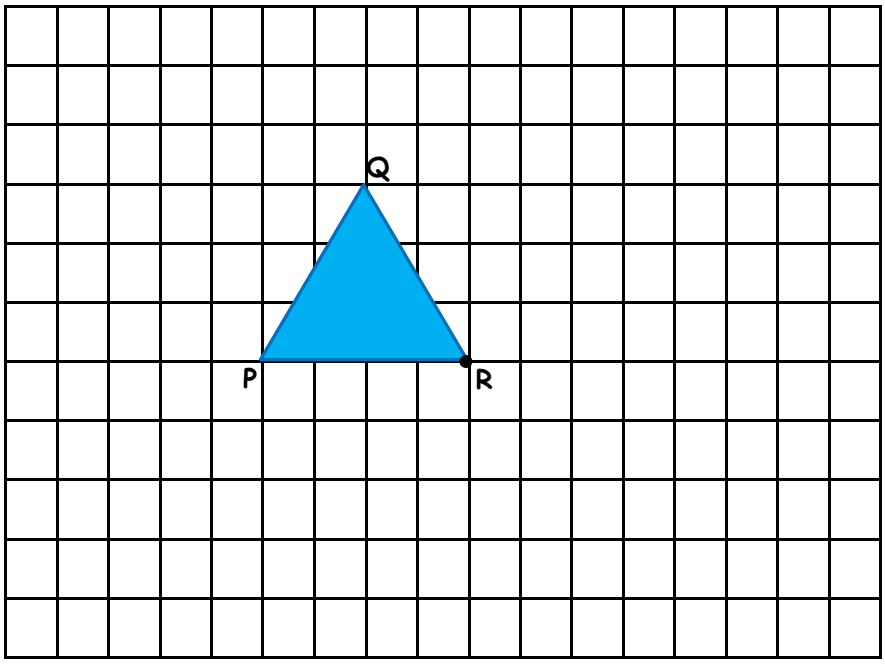
2. The quadrilateral MNOP is shown on the graph paper below. **(4 points)**

- Perform a reflection with respect to the vertical reflection axis.
- Remember to mark each point in the image with a "prime" after the letter, such as "M`".



3. Show the image of triangle ΔPQR for a 90° clockwise rotation about point R. **(4 points)**

- Use tracing paper if you wish.
- Remember to mark each point in the image with a "prime" after the letter, such as "P`".



BONUS ! ! ! (2 points)

Describe at least **one** situation where you might encounter a transformation (a translation, reflection, or rotation) in real life. You may use diagrams to explain if you wish.

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