**Lesson 35**

**SS5: Demonstrate an understanding of line and rotational symmetry.**

**Assignment: Reflections and Rotations**

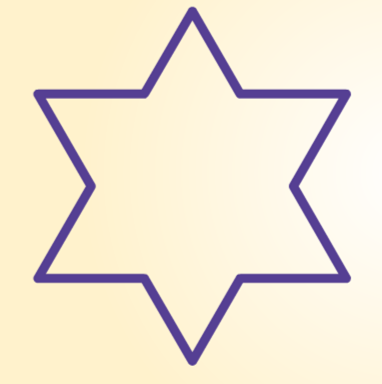
**Complete the following questions on loose-leaf and send a pic of your answers to my email** [**Stacey.hayes@nbed.nb.ca**](mailto:Stacey.hayes@nbed.nb.ca)**.**

**Label your page p. 76 and number 1- down the left hand size. Write the answer .**

1. A line of reflective symmetry divides an object into \_\_\_(how many) equal parts.
2. Give an example of a real-life object that is symmetric.
3. Things that turn are called “\_\_\_\_\_\_\_\_\_\_”.
4. A full turn is \_\_\_ degrees.
5. What size image is reflected in a line symmetry: larger size, smaller size, same size?
6. Corresponding parts of the shape are at \_\_\_\_\_\_\_\_\_(what) distance from the line symmetry.
7. In rotational symmetry, an object is rotated around a \_\_\_\_\_\_\_\_\_\_ point.
8. A butterfly has how many vertical lines of symmetry? \_\_\_\_
9. A butterfly has how many horizontal lines of symmetry? \_\_\_\_\_
10. The letter **H** has how many lines of symmetry. \_\_\_\_\_
11. What is the order of rotation for an equilateral triangle? \_\_\_\_\_
12. What is the angle of rotation of an equilateral triangle? \_\_\_\_\_\_
13. A square has how many lines of symmetry? \_\_\_\_\_
14. What is the order of rotation for the following:



1. What is the angle of rotation for #14?
2. How many lines of reflective symmetry are in the letter **Z**?
3. How many lines of reflective symmetry are in this shape?



1. Draw an arrow that shows clockwise.
2. Give a real-life example of a rotation.
3. The number of times an object coincides with itself Is called \_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_.
4. What is the formula to find angle of rotation? \_\_\_\_\_\_
5. If my order of rotation is 6, what is my angle of rotation? \_\_\_\_\_
6. On graph paper show the following (original figure and reflected image): Triangle ABC is reflected in the x axis. A (-6,-2) B (-3,-6) D (-1,-1)