**Name** _____ **Date** _____

**West Islip Technology Department** **Period** _____

**Drawing Tools**
Activity # 4

Read the directions below carefully and then draw the triangles, lines, circles, and octagon required for each exercise. These exercises will be completed on a piece of 12 x 12 drawing paper, which will be divided into FOUR squares in the following manner:

- 1 vertical lines will be drawn 6" inches away from the end of the paper
- 1 horizontal line will be drawn 6" inches from the bottom/top of the paper

Your drawing layout should resemble the following:

| | |
|---|---|
| 1 | 2 |
| 3 | 4 |

**Exercise 1:** Draw a 3 3/8" square in the center of box 1. Next, find the exact center of the square and draw a 2 1/8" circle. The center point of your circle should be the center of the square.

**Exercise 2:** Draw two triangles. Triangle # 1 will have a 2 5/16" base and the sides will be 30º. Triangle # 2 will have a 2 3/16" base and the sides will be 45º. The starting point for triangle # 1 will be 1" up and 1/2" over from the bottom left hand corner of box 2. Triangle # 2 will start ½" over from triangle # 1.

**Exercise 3:** Draw a 3 ¾" circle in the center of box 3. Next, divide the interior of the circle into 8 equal parts. Lastly, draw a square tangent to the outside of the circle.

**Exercise 4:** Draw an equilateral octagon with sides that are 1 ½" long. The base of the octagon will start 1" up and 2 ¼" over from the bottom left hand corner of box 4. Each inside angle of the octagon should be 135º when the octagon is completely drawn.