Name	Date
West Islip Technology Department	Period

Drawing Tools Activity # 3

Read the directions below carefully and then draw the triangles, lines, and circles 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 5 lines parallel to each other, with a 3/4" space between each line. The line sizes will be (3/4", 1 5/8", 2 1/2", 3 7/8", 4 1/4"). All lines must be centered left-to-right in box 1 using the same center line. Lastly, the first line drawn will be 3/4" in length and will begin 1 1/2" up on the vertical center line that you must draw using a light construction line.
- Use the slide rule and a triangle to draw three sets of perpendicular lines. The starting point for the base of set # 1 will be 1" up and 3/4" over from the bottom left hand corner of box 2. The base line for each set should be 1". After you draw the base for set # 1, the gap in between each base will be 3/4".

Set # 1: 1" base, and 2 3/8" perpendicular line from center of base Set # 2: 1" base, and 3 7/16" perpendicular line from center of base

Set # 3: 1"base and 4 3/16" perpendicular line from center of base

Exercise 3: Use the slide rule and a triangle to draw two triangles. The starting point for Triangle # 1 should be 1" up and 3/4" over from the bottom left hand corner of box 3. Make sure to leave a 3/4" gap between the base of Triangle #1 and #2.

Triangle # 1: Base 1 3/4" and Height from center of base 2 5/8"
Triangle # 2: Base 2 3/8" and Height from center of base 3 3/16"

Exercise 4: Draw a 3 5/8" circle in the center of box 4 using a compass. Inside of the circle, draw a square tangent to all four sides of the circle by using the slide rule and a triangle.