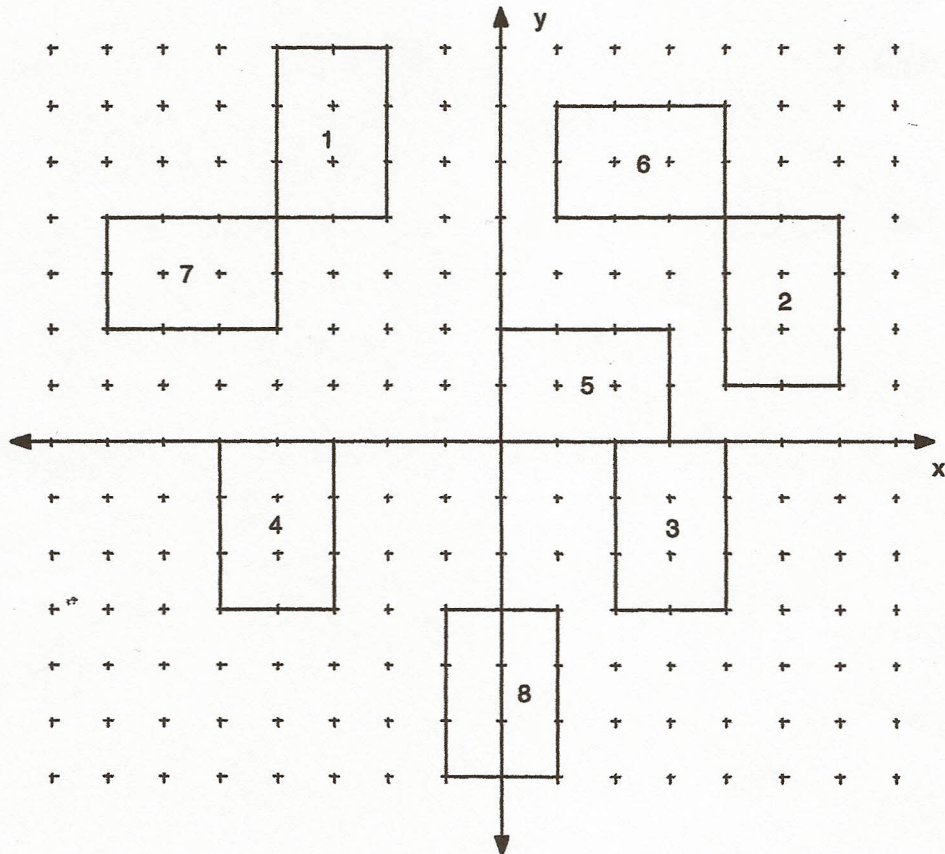


# G-19 The Basics of Transformations

All rectangles are congruent in the grid below. Follow the instructions and then write the number of the rectangle that matches the figure you moved.



1. Reflect Figure 1 over the y-axis. Translate it three units down and rotate it  $90^\circ$  counter-clockwise around  $(3, 1)$ .

Which figure does Figure 1 now match? \_\_\_\_\_

2. Translate Figure 2 one unit down. Reflect it over the x-axis and reflect it over the line  $x = 4$ .

Which figure does Figure 2 now match? \_\_\_\_\_

3. Reflect Figure 3 over the y-axis. Rotate it  $90^\circ$  clockwise around  $(-2, 0)$  and glide it five units to the right.

Which figure does Figure 3 now match? \_\_\_\_\_