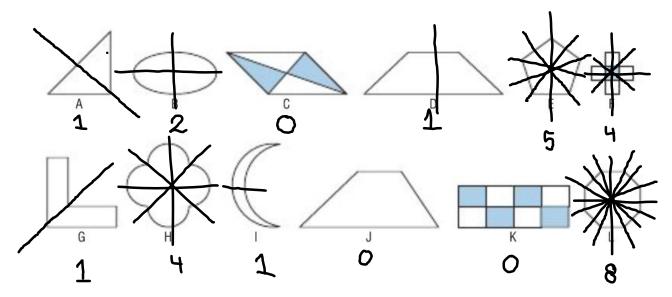
Unit 7: Similarity and Transformations

Name: \_\_\_\_\_

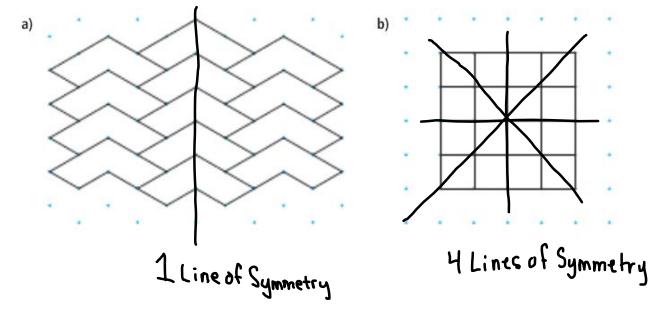
## 7.5 Reflections and Line Symmetry – Notes



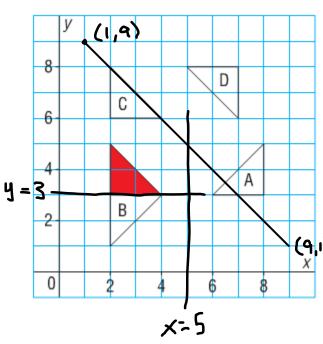


For each shape draw the lines of symmetry and state how many each shape has.

**Example (1):** Identify the lines of symmetry in each tessellation.



**Example (2):** Identify the triangles that are related to the shaded triangle by a line of reflection. Describe the position of each line symmetry.



Triangle A is a reflection of the shaded triangle through the line x=5(vertical line that intersects the x-axis at 5.)

Triangle B is a reflection through the line y=3 (hurizontal line that intersects (91) the y-axis at 3.)

Triangle C is not related through a line of reflection.

Triangle D is a reflection through a line that passes through (1,9) and (9,1) or the line

**Example (3):** Quadrilateral ABCD is part of a larger shape.

Draw the image of ABCD after each reflection below.

Write the coordinates of the larger shape formed by ABCD and its image.

- a) a reflection in the line y = 2 (horizontal line that intersects y-axis of 2)
- b) a reflection in the line x = 6 (vertical line that intersects x-axis at 6)
- c) a reflection in an oblique line through (0,0) and (6,6).

