(0, 3)-

(-1, 0)

.(-2.5, 4).

(-4, 0)_F

Enrichment 3-7

Visual Thinking

Reflect the figure across the y-axis and give the new coordinates.

1. What shape is the figure?

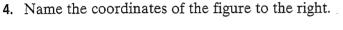


2. Across which axis will you reflect the figure?

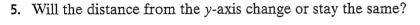


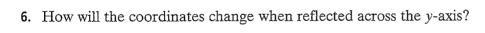
3. What else are you asked for?



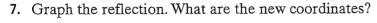












$$E'$$
 _____ F' _____ G' _____ H' _____

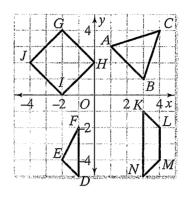
$$G'$$

9. Reflect the original figure across the
$$x$$
-axis and give the new coordinates.

Puzzle 3-7

Reflections and Symmetry

Study the figures in the coordinate plane. Find the points of each figure if it is reflected as described below.



- 1. triangle ABC reflected across the y-axis
- 2. triangle ABC reflected across the x-axis
- 3. triangle DEF reflected across the y-axis
- 4. triangle DEF reflected across the x-axis
- 5. rhombus GHIJ reflected across the x-axis
- 6. rhombus GHIJ reflected across the y-axis
- 7. trapezoid KLMN reflected across the y-axis
- **8.** trapezoid *KLMN* reflected across the *x*-axis

- **O.** (1, -5)(2, -4)(1, -2)
- T. (2,4)(0,2)(2,0)(4,2)
- **G.** (-3, -1)(-4, -2)(-4, -4)(-3, -5)
- M. (3,5)(4,4)(4,2)(3,1)
- **F.** (-1,3)(-4,4)(-3,1)
- N. (3,-1)(4,-4)(1,-3)
- **E.** (-1,5)(-1,2)(-2,4)
- **R.** (-2,0)(0,-2)(-2,-4)(-4,-2)

The state flower of Alaska is the

the ___

3 5

7

6

8

3

6