

## Geometry in the Coordinate Grid

Directions: Plot the points in the order given to create a polygon. Write the problem number inside each polygon. Use the polygon to answer the questions.

1. A quadrilateral has vertices of  $(-1,5)$ ,  $(-1,7)$ ,  $(-6,7)$ , and  $(-6,5)$ .
  - a.) What is the best name for this quadrilateral? \_\_\_\_\_
  - b.) What is the area of the quadrilateral? \_\_\_\_\_
  - c.) What is the perimeter of the quadrilateral? \_\_\_\_\_
  - d.) In what quadrant is the quadrilateral located? \_\_\_\_\_
2. A triangle has vertices of  $(2,0)$ ,  $(5,0)$ , and  $(5,2)$ .
  - a.) What is the area of the triangle? \_\_\_\_\_
  - b.) Would this triangle be considered an acute triangle, a right triangle, or an obtuse triangle? \_\_\_\_\_
  - c.) Would this triangle be considered scalene, isosceles, or equilateral? \_\_\_\_\_
  - d.) In what quadrant is the triangle located? \_\_\_\_\_
3. A quadrilateral has vertices of  $(1,2)$ ,  $(2,6)$ ,  $(4,6)$  and  $(3,2)$ .
  - a.) What is the best name for this quadrilateral? \_\_\_\_\_
  - b.) What is the area of the quadrilateral? \_\_\_\_\_
  - c.) In what quadrant is the quadrilateral located? \_\_\_\_\_
4. A quadrilateral has vertices of  $(6,-4)$ ,  $(6,-5)$ ,  $(5,-5)$ , and  $(5,-4)$ .
  - a.) What is the best name for this quadrilateral? \_\_\_\_\_
  - b.) What is the area of the quadrilateral? \_\_\_\_\_
  - c.) What is the perimeter of the quadrilateral? \_\_\_\_\_
  - d.) In what quadrant is the quadrilateral located? \_\_\_\_\_
5. A quadrilateral has vertices of  $(-1,2)$ ,  $(-5,2)$ ,  $(-4,4)$ , and  $(-2,4)$ .
  - a.) What is the best name for this quadrilateral? \_\_\_\_\_
  - b.) What is the area of the quadrilateral? \_\_\_\_\_
  - c.) In what quadrant is the quadrilateral located? \_\_\_\_\_