

6.G Polygons in the Coordinate Plane

Task

The vertices of eight polygons are given below. For each polygon:

- Plot the points in the coordinate plane and connect the points in the order that they are listed.
- Color the shape the indicated color and identify the type of polygon it is.
- Find the area.
- a. The first polygon is GREY and has these vertices:

$$(-7,4)(-8,5)(-8,6)(-7,7)(-5,7)(-5,5)(-7,4)$$

b. The second polygon is ORANGE and has these vertices:

$$(-2,-7)(-1,-4)(3,-1)(6,-7)(-2,-7)$$

c. The third polygon is GREEN and has these vertices:

$$(4,3)(3,3)(2,2)(2,1)(3,0)(4,0)(5,1)(5,2)(4,3)$$

d. The fourth polygon is BROWN and has these vertices:

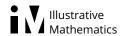
$$(0,-10) (0,-8) (7,-10) (0,-10)$$

e. The fifth polygon is PURPLE and has these vertices:

$$(-8, -5)$$
 $(-8, -8)$ $(-5, -8)$ $(-5, -5)$ $(-8, -5)$

f. The sixth polygon is PINK and has these vertices:

$$(9,-1)(6,1)(6,-3)(9,-1)$$



g. The seventh polygon is BLUE and has these vertices:

$$(-6, -4) (-6, 1) (-9, 1) (-9, -4) (-6, -4)$$

h. The eighth polygon is YELLOW and has these vertices:

$$(-5,1)(-3,-3)(-1,-2)(0,3)(-3,3)(-5,1)$$



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