Middle and High School: Coordinate Plane Assessment

1. The coordinate plane is made up of _____ axes
   a. 3
   b. 2
   c. 1
   d. 4

2. In an ordered pair, the first number is the
   a. X-coordinate
   b. Y-coordinate
   c. origin
   d. vertex

3. When a figure is flipped over a line to create a mirror image, it is called a
   a. translation
   b. rotation
   c. plane figure
   d. reflection

4. When a figure is slid across a line without turning, it is called?
   a. translation
   b. rotation
   c. plane figure
   d. reflection

5. When a figure is turned around a vertex, it is called?
   a. translation
   b. rotation
   c. plane figure
   d. reflection

6. What are the coordinates for a triangle with the coordinates A(-2, 4), B(0, 2), and C(-2, 1) when it is translated two units to the right and 3 units down?
   a. A(-4, 4), B(-2, 2), and C(-4, 1)
   b. A(-1, 4), B(2, 2), and C(0, 1)
   c. A(-2, 1), B(0, -1), and C(-2, -2)
   d. A(-1, 1), B(2, -1), and C(0, -2)

7. What are the coordinates for a quadrilateral with the coordinates A(2,4), B(4,4), C(4,1), and D (1,1) after it is reflected across the x-axis?
   a. A(-4, 4), B(-2, 2), C(-4, 1), and D (4,2)
   b. A(-3, 4), B(-2, 3), C(-4, 1), and D (5,4)
   c. A(2,-4), B(4, -4), C(4, -1), and D (1,-1)
   d. A(-1, 4), B(-4, 2), C(-4, 1)), and D (3,-1)

8. What are the coordinates for a triangle with the coordinates A(-4, 3), B(-1, 1), and   C(-4, 1) when it is rotated 90° clockwise around the origin?
   a. A(3, 4), B(1,1), and C(1,4)
   b. A(-1, 4), B(2, 2), and C(0, 1)

c. A(-3, 1), B(1, -1), and C(1, -2)
d. A(-1, 4), B(2, -1), and C(0, 4)

9. When a figure is rotated 180° around the origin, to find the new coordinates you should
   a. Multiply x-coordinates by -1
   b. Multiply y-coordinates by -1
   c. Multiply both coordinates by -1
   d. None of the above

10. A right angle is formed by
    a. Two parallel lines
    b. Two perpendicular lines
    c. Two line segments
    d. All of the above