**Unit 1 Study Guide (Part 2)** Name

**The Coordinate System**

#### A **coordinate system**, or coordinate plane, is used to locate points in a 2-dimensional plane.

* The horizontal number line is the .
* The vertical number line is the .
* Their intersection is the . (Label)



* + The coordinate plane contains four quadrants (I, II, III, IV). Label the quadrants.
	+ Any point can be located within one of the four quadrants in the coordinate plane using a specific ordered pair of numbers, called its \_.

**(x , y)**

* + The first number in an ordered pair is the x-coordinate.
	+ The second number is the y-coordinate.

Example: **(3,2) 3** is the **x- coordinate**, **2** is the **y-coordinate**.

#### A point is defined on the coordinate plane by one, AND ONLY ONE, ordered pair.

### Tell what point is located at each ordered pair.

**1. (3 , -2)**

|  |  |  |  |
| --- | --- | --- | --- |
| **2.** | **(2 , 3)**  | **3.** | **(-5 , 5)**  |
| **5.** | **(-4 , 4)**  | **6.** | **(-5 , 0)**  |

**4. (-7 , -8)**

**Write the ordered pair for each given point.**

* + 1. **E**
		2. **M**
		3. **P**
		4. **G**
		5. **Q**
		6. **N**

**Plot the following points on the coordinate grid.**

**13. S (-6,-3) 14. T (2,-4) 15. U (5,8)**

**Identify the quadrant containing each point.**

**16. B 17. J 18. I 19. D 20. E**



 **Graph and label the REFLECTION of each point on the coordinate plane**

**11.** *N* (-1, 3) **over x-axis**

**12.** *V* (2, -4) **over y-axis**

**13.** *C* (4, 0) **over x-axis**

**14.** *P* (-6, 2) **over y-axis**

**15.** *M* (-5, 0) **over x-axis**



