**4.1-4.4 Quiz**

**Study Guide**

**4.1: Plot Points in the Coordinate Plane**

**-** Identify/graph ordered pairs **Ex:** Write the coordinates of

- Identify the 4 quadrants point graphed and identify

 the quadrant it lies in.

**4.2: Graph Linear Equations**

* Be able to graph an equation using a table (choose appropriate values for *x*)

**Ex:** Graph 

|  |  |
| --- | --- |
| ***x*** | ***y*** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

* Be able to identify domain and range of a function

**Ex:** You are transferring photos from your digital camera to a CD. Each photo on the camera takes up 2 megabytes of space. The number *p* photos that will fit onto a CD is given by the function *s* = 2*p* where *s* is the amount of space on the CD. One CD can store up to 700 megabytes of data. Identify the domain and range of the function.

**4.3: Graph Linear Functions Using *x* and *y* intercepts**

* Find *x* and *y* intercepts from an equation
* Identify *x* and *y* intercepts from a graph
* Interpret the meaning of *x* and *y* intercepts as they apply to real-world problems

**Ex:** Find the *x* and *y* intercepts of the **Ex:** Graph using

equation  intercepts.

**Ex:** Your earn $16 an hour mowing lawns and $10 an hour washing windows. You want to make $500 in one week.

1. Write an equation to represent the situation
2. Graph the equation using *x* and *y* intercepts.
3. What do the intercepts mean in this situation?
4. What are three possible numbers of hours you can work at each job?
5. If you work 30 hours washing windows, how many hours do you have to work mowing lawns?