Name _____ Key _____   Period _____

Lesson 1.5 Notes (Graph Proportional Relationships)

Coordinate Plane – grid formed when two number lines intersect at their zero points

- **x-axis** – horizontal number line
- **y-axis** – vertical number line
- **Quadrants** – 4 distinct regions formed by the intersection
- **Ordered Pair** (x, y) – pair of numbers used to locate points on the coordinate plane
  - **x-coordinate** – corresponds to a number on the x-axis
  - **y-coordinate** – corresponds to a number on the y-axis
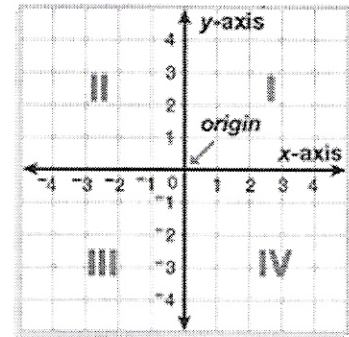

If the graph of two quantities is a straight line through the origin, then the two quantities are proportional!!

Practice:

1. Determine whether the relationship between the two quantities shown in the table is proportional by graphing on the coordinate plane.

Gallons of Gas Used Per Hour	
Number of Hours	Gallons of Gas
3	15
4	20
5	25

Proportional

(straight line through origin)
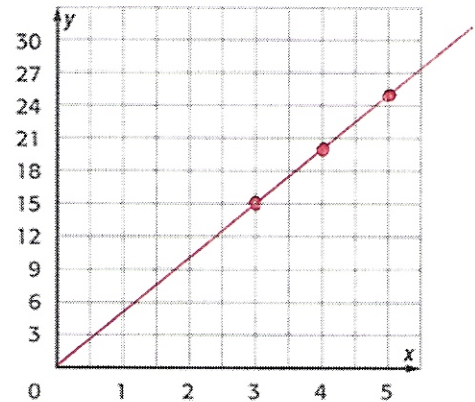
2. Determine whether the relationship between the two quantities shown in the table is proportional by graphing on the coordinate plane.

DVD Rental	
Number of DVDs	Cost ($)
1	7
2	9
3	11

NOT Proportional

(line doesn't go through origin)