Lesson 1 activity

Name: _____ hour: _____

For each situation, determine if the relationship is proportional. Show your mathematical proof.

1) Reese's Peanut Butter cups are on sale at Meijer. The table below represents the price for buying different numbers of Reese's Peanut Butter cups.

Number of cups (x)	1	2	8	15
Cost in dollars (y)	0.79	1.58	6.32	11.85

What do you notice?

2) The table below represents the relationship of the amount of snowfall (in inches) in 5 counties to the amount of time (in hours) hours of a recent winter storm.

x Time (hours)	y Snowfall (inches)
5	10
6	12
8	16
2.5	5
7	14

What do you notice?

3) The following table represents data about families. For each family represented in this table, the number of parents and the number of children are listed.

Number of parents (x)	1	1	2	2
Number of children (y)	2	4	2	5

What do you notice?

4) The following table compares distances on a map (in cm) to actual distances (in miles).

x = Distance on map (cm)	1	3	5	9
y = Actual distance (mi)	15	45	75	135

What do you notice?

5) The following table represents the cost of renting a bike for certain amounts of time.

x = Number of hours	y = Cost ($)
1	10
2	19
3	28
5	45

What do you notice?