Name: _____   Date: _____

Class: _____   Teacher: _____

Math Mini Quiz 3

This Mini Quiz, we're going to explore the math concepts that you've learned so far in this unit. This assignment should take you about **15 minutes**.

1) Below, there are two different datasets. One makes more sense to represent as a scatter plot and the other makes more sense to represent in a two-way table. In the Space below, decide which dataset should go with which type of chart and make that chart.

Teacher ages and the salaries:
Darcy is 29 years old makes $50,000; Vanessa is 33 years old makes $53,000; Rosa is 42 years old and makes $60,000; Jimmy is 24 years old: $41,000; Jenna is 22 years old makes $40,000; Fatima is 34 years old and makes $50,500; Joseph is 25 years old and makes $47,000; Maya is 39 years old and makes $59,000.

Teacher dietary preferences and astrology signs
Darcy is a vegetarian and a Scorpio; Vanessa has no dietary restrictions and is a Capricorn; Rosa is a vegetarian and a Capricorn; Jimmy is a vegetarian and a Ccorpio; Jenna has no dietary restrictions and is an Aries; Fatima has no dietary restrictions and is a Capricorn; Joseph is a vegetarian and a Scorpio; Maya is a vegetarian and a Capricorn.

Put your two-way table here: Make your scatter plot here:

(yes, there's a back, don't forget it)

2) Why did you choose to make the charts the way you did?

3) Think of the correlation coefficient between teacher ages and salaries. Give a rough estimate of the value and explain why you chose it.

4) (a) Of the Scorpios, what percentage are vegetarians? (b) Of the Capricorns, what percentage are vegetarians? (c) Are there more Scorpio vegetarians or more Capricorn Vegetarians? Is a higher percentage of Scorpios or Capricorns vegetarian? (d) Of the total population, what percentage is vegetarian?

The end, good job :)