Name: _____

Scattered Data
Bivariate Data with Scatter Plots

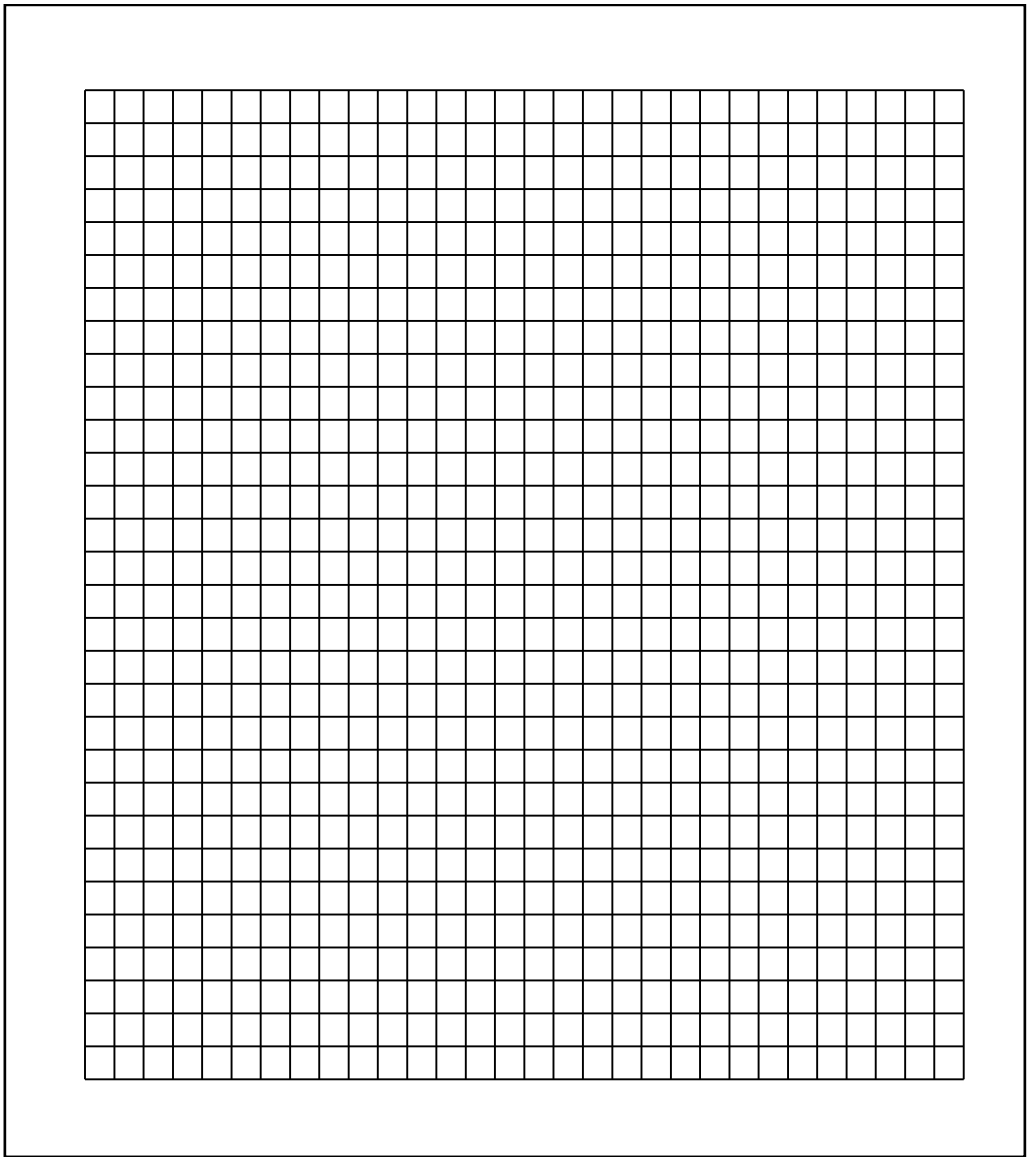
Introduction

How long does it take to pass a ball around in a circle while adding one more person to the circle each time around? Make a class prediction for how the data will appear.

Part 1

Number of students	Time (in seconds)
0	0
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

Part 2
Create a scatter plot.



Name: _____

Part 3 Questions

Discuss at your table. Be prepared to talk about your answers to the class.

1) Is the data univariate data or bivariate data? Why?

2) Why is a scatter plot appropriate for this data? Explain.

3) Should the points be connected? Why or why not?

4) Describe any patterns; increasing, decreasing, linear, etc. What is the number of students doing to the time?

5) Find the first differences.

6) Is the graph a function, if so what type of function?

7) Construct an equation that would be best represented for the graph.