<u>Unit 9 - Relations Review</u>

Key Topics

- Primary vs. Secondary Data
- Types of Sampling (simple random, systematic random, stratified random)
- Scatter Plots Dependent and Independent Variables
- Lines and Curves of Best Fit
- Interpolation and Extrapolation
- Distance/Time Graphs

Review Questions

Identify the type of sampling in the following examples:

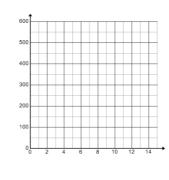
- 1. You randomly choose students proportionately from each grade based on the number of students in the grade.
- 2. Students are chosen by randomly selecting a student number from a list and then choosing every tenth person after that.
- 3. You select students in your phys ed class to interview about the need for newer gym equipment.
- 4. All students names are put in a hat and 100 names are selected randomly to interview.

Graphing and Analyzing Sample Question:

Two ships are travelling on parallel courses that are 10 km apart. This table shows the distance between the two ships over a 12-hour period.

- 1. Identify the dependent and independent variables.
- 2. Make a scatter plot of the data.

Time (h)	Separation (km)
0	575
1	530
2	500
3	445
4	410
5	380
6	330
7	300
8	255
9	210



- 3. Describe the relationship between the variables and draw a line of best fit.
- 4. Identify any outliers.
- 5. Predict when the ships will be closest. Did you use interpolation or extrapolation to make your prediction?

Assigned Work

Pgs 95 – 97 # 1 – 13

Pgs 98 - 99 # 1 - 10

TEST NEXT CLASS!!