<u>Two Variable Statistics</u>

Variable:

One-variable data set:

       Types of graphs:

Two-variable data set:

       Types of graphs:

Example 1:   A survey of Grade 12 students included a question asking whether they had part-time jobs. The table shows the frequency of results by home form.
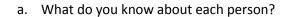
Home Form	Frequency
12A	4
12B	6
12C	2
12D	8
12E	7
12F	6
12G	3
12H	5

a. Identify the variables.

b. Should the data be graphed using a dot plot, bar graph, histogram, or scatter plot? Why?

c. Draw an appropriate graph.

d. Give two descriptive statements about this data set.

Example 2   This table shows the results of a survey of 15 teenagers, in which participants indicated their age and the number of hours of physical activity per week.

Age (years)	14	16	17	15	18	19	19	18	13	15	16	16	16	14	17
Physical Activity (hours)	3	0	4	10	1	6	5	9	10	0	0	14	10	7	0

a. What do you know about each person?

b. Identify the variable(s).

c. What type of graph would be appropriate for this data set? Why?

d. Draw the appropriate graph.

e. Pose a question that would require one-variable data analysis.

f. Pose a question that would require two-variable data analysis.