# MTH 1210 Lab 1 Answer Sheet

## Due Tue., June 18

## Part A

**[Copy and paste the first bar plot (showing Abuse Victim statuses) here**]

**[Copy and paste the second bar plot (showing Committed Violent Crime statuses) here**]

**[Copy and paste the third bar plot (showing *both* categorical variables) here**]

## Part B

[**Copy and paste the histogram here**]

**Question 1**. Describe the overall shape of the histogram (Unimodal or multimodal? Symmetric, right skewed, or left skewed? Bell-shaped? Outliers?)

**Question 2**. Give the numerical values of the sample mean, median, and standard deviation.

**Question 3**. Which measure of center is larger, the mean or the median? Explain why this is to be expected. ***Hint***: What’s the shape of the distribution?

**Question 4**. Which measure of center is more representative of a typical number of departures, the mean or the median?

## Part C

**Question 1**. Give the numerical values of the sample mean, median, standard deviation, and interquartile range.

[**Copy and paste the histogram (after correcting the outlier) here**]

**Question 2**. Give the numerical values of the sample mean, median, standard deviation, and interquartile range (after correcting the outlier). Which of these statistics didn’t change and which ones did (i.e. which are *resistant* to outliers and which ones aren’t)?