1.1) Write a command to read the data set named mvtWeek1. How many Rows of data are there in the observation?

1.2) How many Variables are there in the data Set?

1.3) Using the "max" function, what is the maximum value of the variable "ID"?

1.4) What is the minimum value of the variable "Beat"?

1.5) How many observations have value TRUE in the Arrest variable (this is the number of crimes for which an arrest was made)?

1.6) How many observations have a LocationDescription value of ALLEY?

2.1) In what format are the entries in the variable Date?

Month/Day/Year Hour:Minute

Day/Month/Year Hour:Minute

Hour:Minute Month/Day/Year

Hour:Minute Day/Month/Year

2.2) What is the month and year of the median date in our dataset? Enter your answer as "Month Year", without the quotes. (Ex: if the answer was 2008-03-28, you would give the answer "March 2008", without the quotes.)

2.3) In which month did the fewest motor vehicle thefts occur?

2.4) On which weekday did the most motor vehicle thefts occur?

2.5) Each observation in the dataset represents a motor vehicle theft, and the Arrest variable indicates whether an arrest was later made for this theft. Which month has the largest number of motor vehicle thefts for which an arrest was made?

3.1) Based on the histogram, does it look like crime increases or decreases from 2002 - 2012?

First, let's make a histogram of the variable Date. We'll add an extra argument, to specify the number of bars we want in our histogram. In your R console, typehist(mvt$Date, breaks=100)Looking at the histogram, answer the following questions.

Increases

Decreases

In general, does it look like crime increases or decreases from 2005 - 2008?

Increases

Decreases

In general, does it look like crime increases or decreases from 2009 - 2011?

Increases

Decreases

3.2) Does it look like there were more crimes for which arrests were made in the first half of the time period or the second half of the time period? (Note that the time period is from 2001 to 2012, so the middle of the time period is the beginning of 2007.)

Use Boxpolt to answer this question.

First Half

Second Half

3.3) For what proportion of motor vehicle thefts in 2001 was an arrest made?

3.4) For what proportion of motor vehicle thefts in 2007 was an arrest made?

3.5) For what proportion of motor vehicle thefts in 2012 was an arrest made?

4.1) Which locations are the top five locations for motor vehicle thefts, excluding the "Other" category? You should select 5 of the following options.

Bank

Gas Station

Hotel/Motel

Street

Car Wash

Restaurant

Parking Lot/Garage (Non-Residential)

Alley

Driveway (Residential)

Option 10

Vacant Lot/Land

4.2) Create a subset of your data, only taking observations for which the theft happened in one of these five locations, and call this new data set "Top5". How many observations are in Top5?