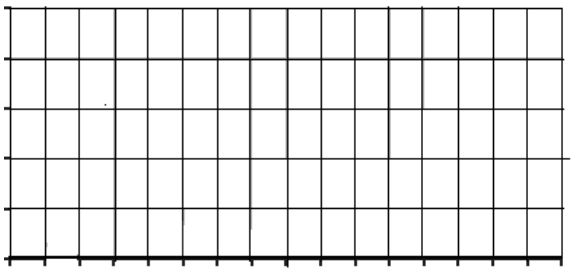
Name: _____ **Class:** _____

Dot Plots & Histograms **Date:** _____

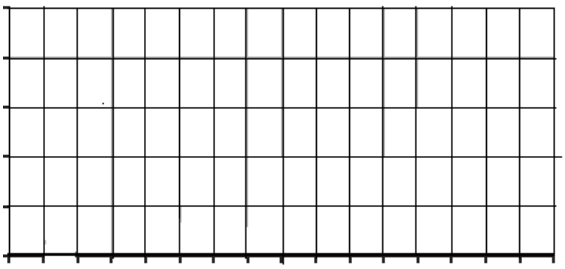
Twenty-five people were attending an event. The ages of the people are indicated below:

3, 3, 4, 4, 4, 4, 5, 6, 6, 6, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 16, 17, 22, 22, 25

a. Create a dot plot for the data



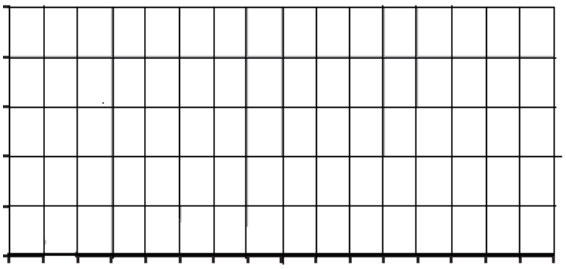
b. Use the dot plot to make a Histogram by Hand



c. Describe your Histogram by determining the shape?

d. Determine which bars the mean and median are in?

e. Use the Histogram to make a Relative Frequency Histogram by Hand

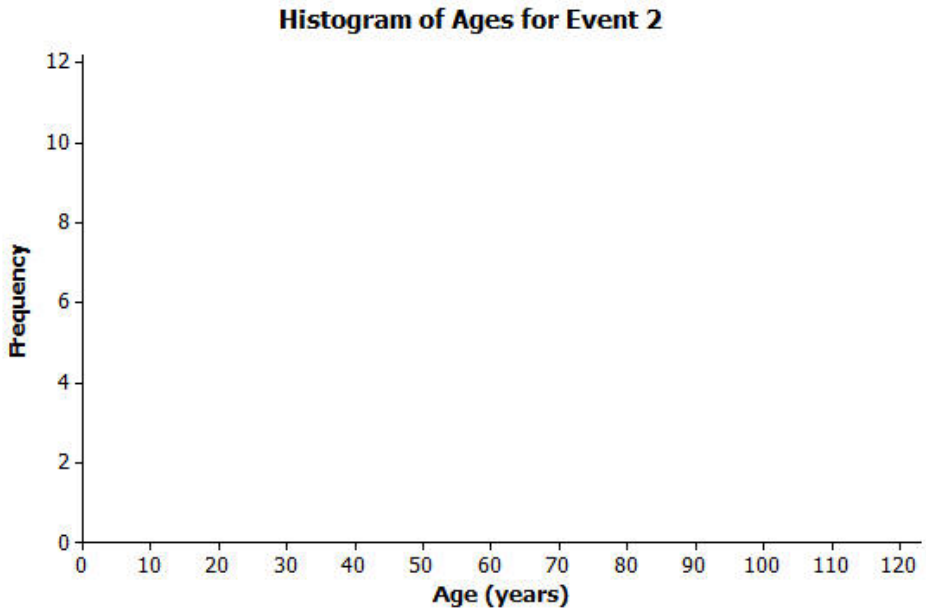


HISTOGRAM on CALCULATOR

A different forty people were also attending an event. The ages of the people are:

6, 13, 24, 27, 28, 32, 32, 34, 38, 42, 42, 43, 48, 49, 49, 49, 51, 52, 52, 53, 53, 53, 54, 55, 56, 57, 57, 60, 61, 61, 62, 66, 66, 66, 68, 70, 72, 78, 83, 97

a. Create a histogram of the ages using your CALCULATOR



b. Determine the **shape** of the histogram

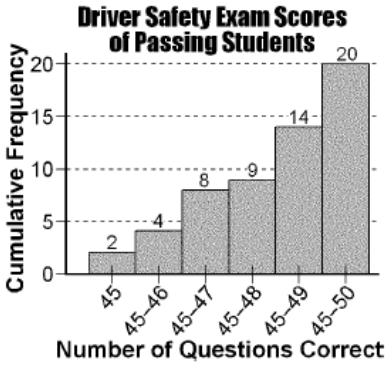
c. Use the shape of the histogram to determine actual value of the **Center** of the Histogram

d. Use the shape of the histogram to determine the **range/spread** of the Histogram

e. Does the Histogram have any unusual features or outliers?

Interpreting Histograms

In order to pass a driver's safety course, a person must answer at least 45 out 50 questions correctly. The cumulative histogram below gives the scores of a group of people who passed the exam.



35) According to the table shown, how many total people passed the driver's safety exam?
A) 25 B) 57 C) 50 D) 20

36) According to the table shown, how many people answered 49 questions correctly?
A) 5 B) 9 C) 14 D) 41

37) According to the table shown, how many people received a score of 48 or less?
A) 23 B) 9 C) 11 D) 25

38. Describe the shape of the Histogram

39. Determine which bar the Median is in.

40. Determine which bar the Mean would be in.