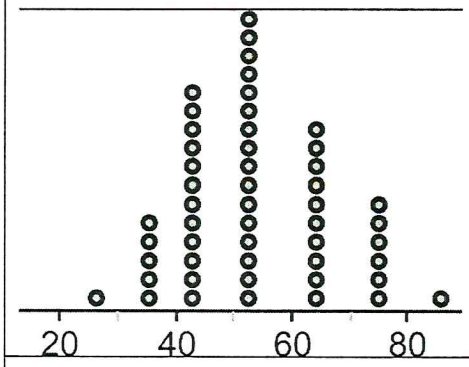
Name: Key Hour: ____ Date: _____

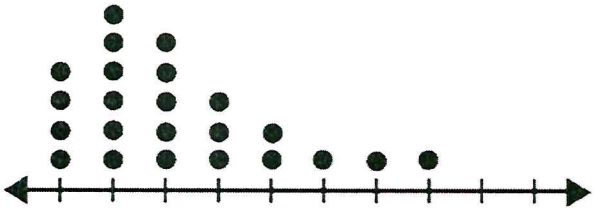
Shape of Data Distribution Notes

We will be describing the shape of data distribution in three different ways...



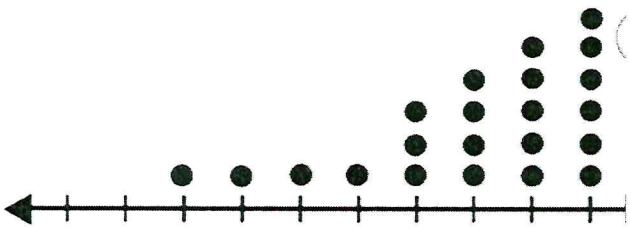
The data is this dot plot is best described as being Symmetric.

We often refer to this type of distribution as normal.



The data in this dot plot is best described as being right skewed.

We call it this because there is a tail on the right side of the data.

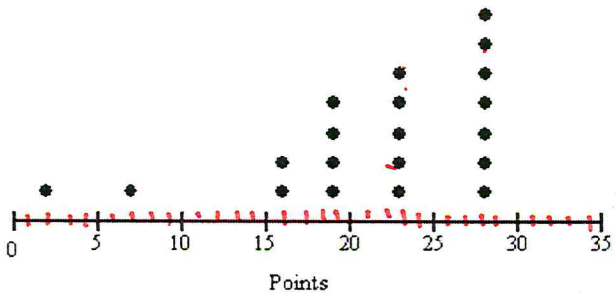


The data in this dot plot is best described as being left skewed.

We call it this because there is a tail on the left side of the data.

Examples:

1) The following dot plot shows the points scored in a season by 20 different soccer players.



a) Describe the shape of the distribution. left skewed

b) Find the mean. 21.4

c) Find the median. 23

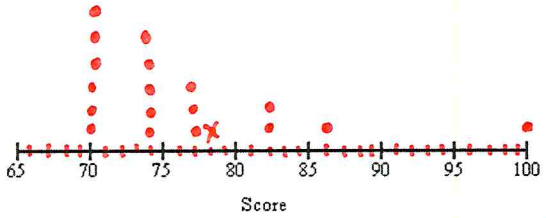
d) Find the mode. 28

e) Find the range. 26

2) The following data is the test scores of 18 students in a class:

70, 70, 70, 70, 70, 70, 74, 74, 74, 74, 74, 77, 77, 77, 82, 82, 86, 100

a) Make a dot plot to represent this data.



b) Describe the shape of the data distribution. right-skewed

c) Find the mean. 76.2

d) Find the median. 74

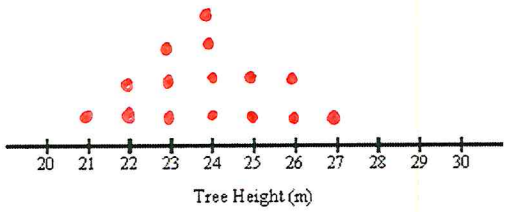
e) Find the mode. 70

f) Find the range. 30

3) The following data represents the heights of different species of trees in a forest, measured in feet.

21, 22, 22, 23, 23, 23, 24, 24, 24, 24, 25, 25, 26, 26, 27

a) Make a dot plot to represent this data.



b) Describe the shape of the data distribution. Symmetric

c) Find the mean. 23.9

d) Find the median. 24

e) Find the mode. 24

f) Find the range. 6