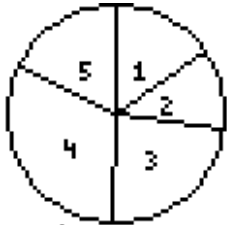


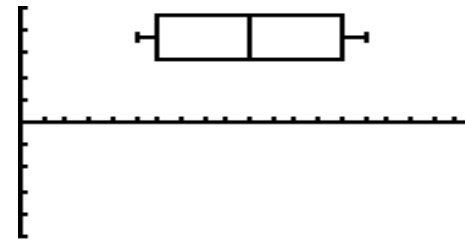
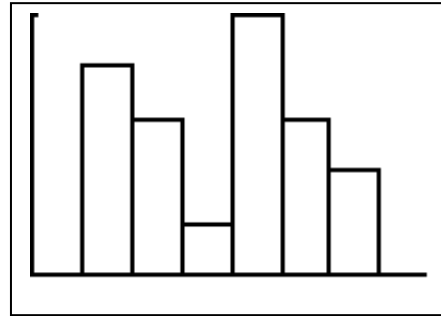
Circle Graph

1: 15
2: 12
3: 23
4: 31
5: 18

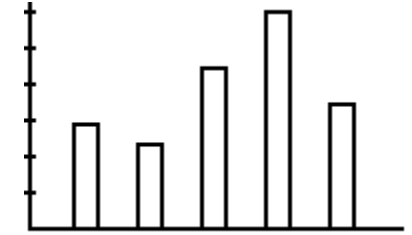


FRUIT:ORANGE LG:15

Histogram



Box and Whisker Plot



Bar Graph

Advantages:

- Useful for comparing large data sets or for comparing two or more data sets
- Shows the distribution of the data clearly
- Minimum, maximum, quartiles, outliers and mean are easily identified
- No clutter. Doesn't become more complicated with more data values

Advantages:

- The mode is easily seen
- Can be easily converted to a pictograph
- Categories or numbers can be compared at a glance
- Order doesn't matter
- Relatively easy to construct
- Easy to estimate values

Advantages:

- Clarifies patterns and trends over time better than most displays
- Is easily understood and recognized due to widespread use
- Requires little additional written or verbal explanation
- Can be used for large data sets

Advantages:

- Shows distribution of data
- Easy to construct and interpret
- Provides frequencies
- Easy to find minimum and maximum values, range and outliers
- Clusters or gaps in data easily identified
- Mode easy to identify
- Easy to see intervals

Disadvantages:

- Can be difficult to construct
- Reveals little about mean, median or mode
- Must show 100% of the data
- Cannot be used with a large number of categories

Disadvantages:

- Does not display mean, median or mode
- Does not provide exact values
- Does not identify outliers
- Can be easily manipulated to give false impressions
- Takes more time to construct than some other graphs
- Order matters

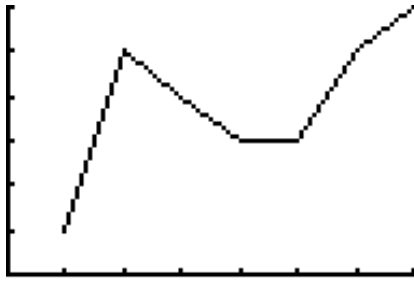
Disadvantages:

- Relatively difficult to construct
- Data elements are not displayed individually
- Impossible to determine gaps or clusters of values
- Cannot tell the frequency of individual values or compare the frequencies of several values
- Unfamiliar to many people

Disadvantages:

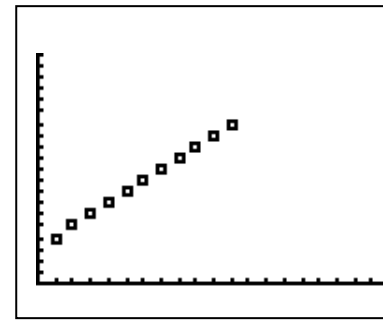
- Often requires additional written or verbal work
- Can be easily manipulated to create a false impression
- Cannot be used to show how something changes over time
- Is not well suited for making predictions

Line Graph

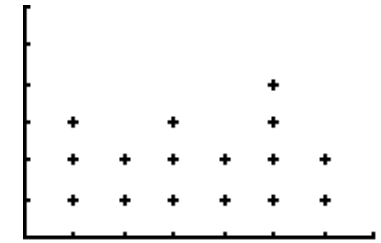


Stem and Leaf

1	0, 3, 6
2	4, 5
3	3, 3, 8
4	0
5	1, 7, 9,
6	2, 3, 4



Scatter Plot



Line Plot

Advantages:

- Useful for determining if two sets of data are related
- Shows a trend or a change over time
- Shows each data point
- Clusters, gaps, or outliers are easy to see
- Useful for seeing if the data approximates a function

Advantages:

- Can be quickly constructed
- Shows every piece of data
- Provides a clear picture of a data set
- Easy to find the minimum and maximum values, and the mode
 - Easy to find clusters or gaps in the data
 - Can be adapted to a box and whisker plot

Advantages:

- Categories are relatively easy to compare
- Shows areas proportional to the number of data points
- Each category can be compared to the whole
- Used for large data sets
 - Frequency can be represented in fraction or percent form

Advantages:

- Displays overall shape of the data
- Uses continuous intervals for large data sets
- Relatively easy to read and interpret
- Useful for seeing the existence of outliers
- Used to summarize a large data set
 - Choice of interval size is not restricted

Disadvantages:

- Can be easily manipulate to create false impressions
- Reveals little about mean, median or mode
- Is not useful for comparing categorical data
- Not useful for discrete data points

Disadvantages:

- Choice of bin (interval) "width" is limited
- Difficult to construct with too many digits
- Unfamiliar to many people
- No useful for comparing more than one population
- Using back to back plots is difficult if the two groups are not roughly the same size

Disadvantages:

- Reveals little about mean, median or mode
- Can be easily manipulated to create false impressions
- Is not useful for comparing data

Disadvantages:

- Not appropriate for large sets of data
- Can appear jumbled if one value is repeated or when many values are clumped
- Must show 100% of the data
- Can't be used with a large number of categories or when range is too great