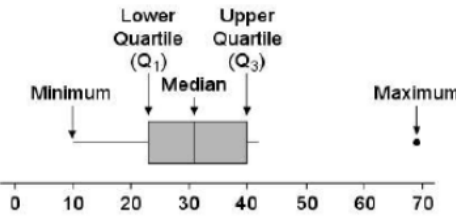


Different Types of Statistical Graphs

Box Plot

Box : Whisker



Quantitative

Displays 5 data

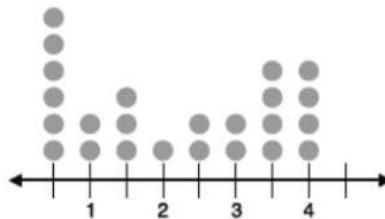
Advantages:

- Shows 5 point summary and outliers
- Easily compares two or more data sets
- Handles extremely large data sets easily

Disadvantages:

- Not as visually appealing as other graphs
- Exact values not retained (display)

Dot Plot



Quantitative

Displays lots data

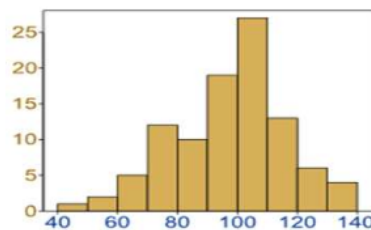
Advantages:

- Simple to make
- Shows each individual data point

Disadvantages:

- Can be time consuming with lots of data points
- Fractions of units are hard to display

Histogram



Quantitative

Displays shape data

Advantages:

- Visually strong
- Good for determining the shape of the data

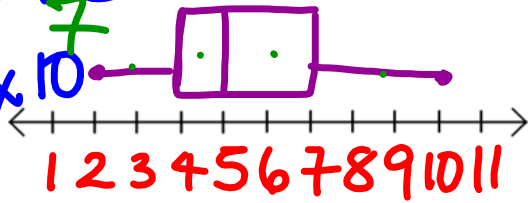
Disadvantages:

- Cannot read exact values because data is grouped into frequencies
- Difficult to compare two data sets

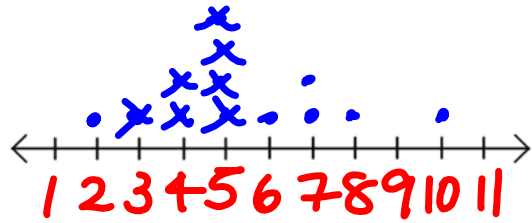
Create each type of statistical graph using the data set given.

min 2
 Q₁ 4
 med 5
 Q₃ 7
 max 10

Example 1: 2, 3, 4, 4, 5, 5, 5, 6, 7, 7, 8, 10



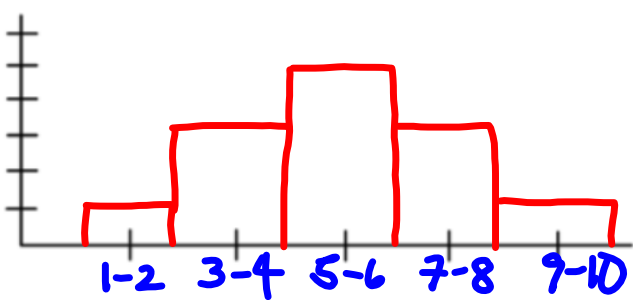
Dot Plot



Frequency Chart

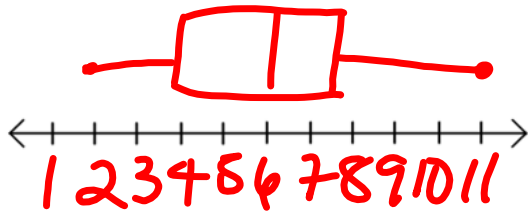
| | | | | |
|-----|-----|-----|-----|------|
| 1-2 | 3-4 | 5-6 | 7-8 | 9-10 |
| 1 | 3 | 5 | 3 | 1 |

Histogram

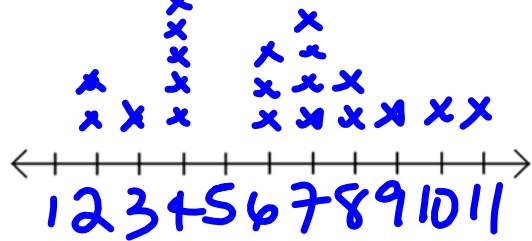


Example 2: 2, 3, 4, 4, 6, 7, 2, 8, 9, 10, 11, 4, 4, 6, 7, 4, 6, 7, 7, 8

Box Plot



Dot Plot



Frequency Chart

| | | | | |
|-----|-----|-----|-----|-------|
| 2-3 | 4-5 | 6-7 | 8-9 | 10-11 |
| 3 | 5 | 7 | 3 | 2 |

Histogram

