

characterizing data-

distribution: way values are spread - table or graph, describe center/shape

Mean -  $\bar{X} = \frac{\text{sum of values}}{\text{total}}$  mode - commonest value

Median - middle value of sorted data set

Outlier - Value way higher/lower than offset mean

Shape: Symmetry (line of symmetry, mode = mean = median)

Skewness (how far off from symmetry, tail/skew on side of tail), Peaks (unimodal/bimodal)

Variation: how spread away from mean

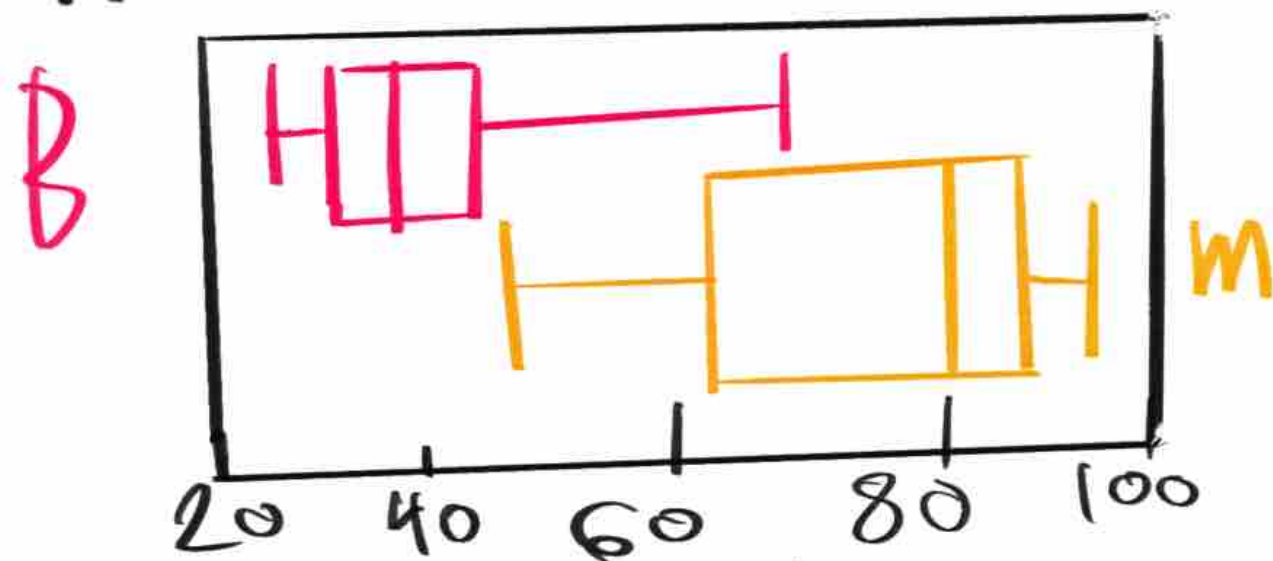
Range: Max/min, limited, min (lowest val), Q1

(median of lower half), Q2 (overall median),

Q3 (upper half), Max (Highest value)

Box plot - Q1-Q3, Vert line through median, whiskers

	mean	median	mode	min	Q1	med	Q3	max
B	39.78	36	42	26	29	36	45	69
M	75	80	44	50	62	80	97.5	94



Standard deviation - Describes variation, dev from mean = data value - mean

$$\sqrt{\frac{\text{sum of deviations from mean}^2}{\text{total data values} - 1}}$$

