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Probability & Statistics

Assignment

Q1 i) 4, 7, 9, 9, 11, 15, 18, 18, 18, 25

$$\text{Mean} = \frac{4 + 7 + 9 + 9 + 11 + 15 + 18 + 18 + 18 + 25}{10}$$
$$= 13.4$$

Median

4, 7, 9, 9, 11, 15, 18, 18, 18, 25

$$\frac{11 + 15}{2} = 13$$

Mode = 18

$$\text{Standard dev.} = \sqrt{\frac{\sum (x_i - \bar{x})^2}{N}}$$

$$= \sqrt{\frac{(4-13.4)^2 + (7-13.4)^2 + (9-13.4)^2 + (9-13.4)^2 + (11-13.4)^2 + (15-13.4)^2 + (18-13.4)^2 + (18-13.4)^2 + (18-13.4)^2 + (25-13.4)^2}{10}}$$
$$= \sqrt{\frac{88.36 + 40.96 + 19.36 + 19.36 + 5.76 + 2.56 + 21.16 + 21.16 + 21.16 + 134.56}{10}}$$