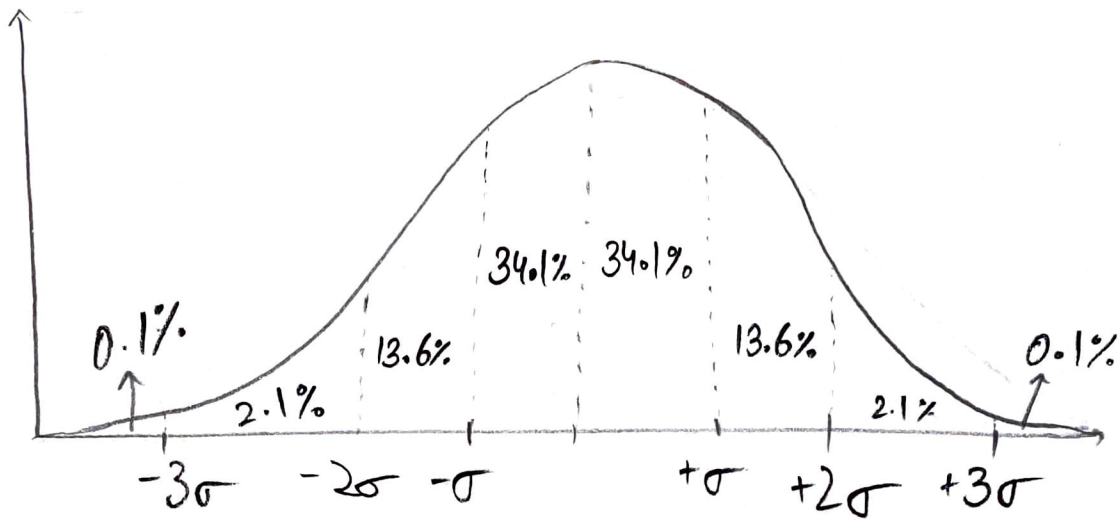
Standard deviation



$$\sigma = \sqrt{\frac{\Sigma(x-\bar{x})^2}{n-1}}$$

Data = 1, 2, 3, 4, 5

$$\bar{x} = \frac{1+2+3+4+5}{5} = \frac{15}{5}$$

$$= \boxed{3}$$

$$\Sigma(x-\bar{x})^2$$

$x=1 \Rightarrow (1-3)^2 = 4$ | $x=2 \Rightarrow (2-3)^2 = 1$ | $x=3 \Rightarrow (3-3)^2 = 0$ | $x=4 \Rightarrow (4-3)^2 = 1$ | $x=5 \Rightarrow (5-3)^2 = 4$

$$\Sigma(x-\bar{x})^2 = 4+1+0+1+4 = 10$$

$$\sigma = \sqrt{\frac{10}{5-1}} = \sqrt{\frac{10}{4_2}} = \sqrt{\frac{5}{2}} = 1.58$$

$$\sigma = \sqrt{\frac{((3.6)^2+(1.6)^2)\times 2+0}{4}}$$

$$= \sqrt{\frac{(12.96+2.56)\times 2+0}{4}} = 2.78$$

$$\bar{x} = \frac{0+2+4+5+7}{5}$$

$$= \frac{18}{5} = 3.6$$