

- Weighted Arithmetic Mean

$$n_1 \times x_1, n_2 \times x_2, n_3 \times x_3$$

$$\bar{X} = \frac{n_1 \times x_1 + n_2 \times x_2 + n_3 \times x_3}{n_1 + n_2 + n_3}$$

$$2(3) \quad 4(2) \quad 5(5)$$

$$\bar{X} = \frac{2 \times 3 + 4 \times 2 + 5 \times 5}{2 + 4 + 5}$$

- Geometric Mean

$$x_1, x_2, x_3, \dots, x_n$$

$$G = \sqrt[n]{x_1 \times x_2 \times x_3 \times \dots \times x_n}$$

$$1 \quad 1 \quad 3 \quad 4 \quad 6$$

$$G = \sqrt[5]{1 \times 1 \times 3 \times 4 \times 6}$$

$$= (1 \times 1 \times 3 \times 4 \times 6)^{1/5}$$

$$\sqrt[1/5]{\quad}$$

- Harmonic Mean

$$x_1, x_2, x_3, \dots, x_n$$

$$H = \frac{1}{\frac{1}{n} \sum_{j=1}^n \frac{1}{x_j}} = \frac{n}{\sum_{j=1}^n \frac{1}{x_j}}$$

$$\boxed{1 \quad 1 \quad 3 \quad 4 \quad 6}$$

$$H = \frac{5}{\frac{1}{1} + \frac{1}{1} + \frac{1}{3} + \frac{1}{4} + \frac{1}{6}} = \boxed{\phantom{00}}$$

- Median

$$1 \quad 1 \quad \downarrow \quad \boxed{3} \quad 4 \quad 5$$

Median

$$1 \quad 2 \quad \boxed{2 \quad 4} \quad 3 \quad 5$$

$$\frac{2+4}{2} = 3$$

- Mode

$$\boxed{1 \quad 1} \quad 3 \quad 4 \quad 6$$

①

$$1 \quad \boxed{2 \quad 2} \quad 4 \quad 3 \quad 5$$

②

$$x = \quad 1 \quad \quad 1 \quad \quad 3 \quad \quad 4 \quad \quad 5$$

$$\bar{x} = \frac{1+1+3+4+5}{5} = \frac{13}{5} = 2.6$$

$$SD = \sqrt{\frac{\sum_{j=1}^n (x_j - \bar{x})^2}{N}}$$