

Appendix 22

The Computation of Distribution Frequency**1. The Distribution Frequency of Pre-Test 2 (XI Class 4)****a. The extent of the data**

The highest score = 70

The Lowest score = 45

Formula $R = \text{Highest score} - \text{lowest score}$

$$= 70 - 45$$

$$= 25$$

b. The total number of class intervalFormula : $K = 1 + (3.3 \text{ Log } n)$

$$= 1 + (3.3 \text{ Log } 25)$$

$$= 1 + (3.3 \times 1.40)$$

$$= 1 + 4.6$$

$$= 5.6 / 6$$

c. The length of class intervalFormula : $P = \frac{R}{K}$

$$P = \frac{25}{6}$$

$$P = 4$$

2. The Distribution Frequency of Post-Test 2 (XI Class 4)**a. The extent of the data**

The highest score = 75

The Lowest score = 40

Formula $R = \text{Highest score} - \text{lowest score}$

$$= 75 - 40$$

$$= 35$$

b. The total number of class intervalFormula : $K = 1 + (3.3 \text{ Log } n)$

$$= 1 + (3.3 \text{ Log } 35)$$

$$= 1 + (3.3 \times 1.54)$$

$$= 1 + 5$$

$$= 6$$

c. The length of class intervalFormula : $P = \frac{R}{K}$

$$P = 35/6$$

$$P = 5.8 / 6$$