

Appendix 21

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

The highest score = 65

The Lowest score = 35

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

$$= 65 - 35$$

$$= 30$$

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

$$= 1 + (3.3 \text{ Log } 30)$$

$$= 1 + (3.3 \times 1.48)$$

$$= 1 + 4.9$$

$$= 5.9 / 6$$

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

$$P = \frac{30}{6}$$

$$P = 5$$

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

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The Lowest score = 35

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

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