

Experiment - 9

Page :

Date: / /

* Aim :- To calculate Quartile Deviation & its coefficient.

* Experiment :- Obtain the value of Quartile deviation and its coefficient from the following data:-

Class Interval	Frequency
15 - 20	10
20 - 25	12
25 - 30	15
30 - 35	25
35 - 40	38
40 - 45	30
45 - 50	20
50 - 55	18
55 - 60	9

* Theory & Formula used :-

Quartile Deviation (Q.D.) :- Quartile Deviation is defined as the average amount by which the two quartiles differ from median.

$$Q.D. = \frac{Q_3 - Q_1}{2}$$

Q_3 = Third Quartile

Q_1 = First Quartile

$$\text{Coefficient of Q.D.} = \frac{Q_3 - Q_1}{Q_3 + Q_1}$$

* Result :-

$$Q.D. = \underline{\underline{7.11875}}$$

$$\text{Coefficient of Q.D.} = \underline{\underline{0.18457}}$$