$$\text{Mean} = \frac{\Sigma fx}{\Sigma f}$$

Ex: 37.2

Score x	frequency (f)	fx
1	12	12
2	11	22
3	8	24
4	12	48
5	7	35
6	10	60
	60	201

$$\text{Mean} = \frac{\Sigma fx}{\Sigma f}$$

$$= \frac{201}{60}$$

$$= 3.35$$

Median = 3.

Mode = 1, 4 , Range = 6 − 1 = 5

3. a) $$\text{Mean} = \frac{\Sigma fx}{\Sigma f}$$

$$= \frac{(0\times0)+(1\times0)+(2\times0)+(3\times6)+(4\times4)+(5\times6)+(6\times10)+7\times16+8\times18}{0+6+4+6+10+16+18}$$

$$= \frac{380}{60}$$

$$= 6.33 \text{ (2 dp)}$$

Median = 7

Mode = 8

Range = 8 − 3 = 5

(b) The mode. it gives the highest number of flowers per bush.

Date : __/__/__

The mean for grouped data.

$$\text{Mean} = \frac{\Sigma fx}{\Sigma f}$$

Ex: 37.3

1. a)

Height (m)	frequency f	mid-value (x)	fx
1.8 – 1.9	2	$\left(\frac{1.8+1.9}{2}\right)$ 1.85	3.7
1.9 – 2.0	5	1.95	9.75
2.0 – 2.1	10	2.05	20.5
2.1 – 2.2	22	2.15	47.3
2.2 – 2.3	7	2.25	15.75
2.3 – 2.4	4	2.35	9.4
	50		106.4

b) $\text{Mean} = \frac{\Sigma fx}{\Sigma f} = \frac{106.4}{50} = 2.1 \text{ m}$

c) Modal class height = 2.1 – 2.2 m

2. a)

Hours of training.	frequency.	mid-value	fx
0 – 9	12	4.5	54
10 – 19	18	14.5	261
20 – 29	22	24.5	539
30 – 39	64	34.5	2208
40 – 49	32	44.5	1424
50 – 59	20	54.5	1090
	168		5576

Mean = $\frac{5576}{168}$ = 33 hours.

Modal class = 30 – 39.