

Exercise 14.4

- 4) Find the mode of 14, 25, 14, 28, 18, 17, 18, 14, 23, 22, 14, 18.
 and 14, 14, 14, 14, 17, 18, 18, 18, 22, 23, 25, 28

Numbers	Number Frequency
14	4
17	1
18	3
22	1
23	1
25	1
28	1

Here,

14 is occurring more time. So, 14 is the ~~frequency~~ mode.

- 5) Find the mean salary of 60 workers of a factory from the following table:

Salary (in ₹)	Number of workers
3000	16
4000	12
5000	10
6000	8
7000	6
8000	4
9000	3
10000	1
Total	60

Salary (x_i)	Number of workers (f_i)	$f_i x_i$
3,000	16	48,000
4,000	12	48,000
5,000	10	50,000
6,000	8	48,000
7,000	6	42,000
8,000	4	32,000
9,000	3	27,000
10,000	1	10,000
Total	$\Sigma f_i = 60$	$\Sigma f_i x_i = 3,05,000$

The mean $\bar{x} = \frac{\text{Sum of all observation}}{\text{Total number of observation}}$

$$= \frac{\Sigma f_i x_i}{\Sigma f_i}$$

$$= \frac{3,05,000}{60}$$

$$= ₹ 5083.33$$