

**Class X**  
**Mathematics**  
**Chapter-14 STATISTICS Module 1 / 4**  
**Worksheet**

Find the mean of the following data

a. 5,6,4,8,7,9,6,5,4,5,6,8

Ans

$$\begin{aligned}\text{Mean} &= \frac{\text{sum of all observation}}{\text{total number of observation}} \\ &= \frac{5+6+4+8+7+9+6+5+4+5+6+8}{12} \\ &= \frac{73}{12} \\ &= 6.08\end{aligned}$$

b. 8,4,5,7,7,,8,6,8,9,5,6,8,9,5,6

c. 14,12,13,15,14,12,16,14,15,14

d. 25,15,25,35,15,15,45,35,45,25

Find the mean of the given data

a. Find by direct and assumed mean method

Class	10-30	30-50	50-70	70-90	90-110	110-130
Frequency	5	8	12	20	3	2

Mean by Direct Method

Class	Frequency	Class Mark	f.x
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	(f)	(x)	
10-30	5	20	100
30-50	8	40	320
50-70	12	60	720
70-90	20	80	1600
90-110	3	100	300
110-130	2	120	240
	$\Sigma f = 50$		$\Sigma fx = 3280$

$$\begin{aligned} \text{Mean} &= \frac{\Sigma f x}{\Sigma f} \\ &= \frac{3280}{50} \\ &= 65.6 \end{aligned}$$

### Mean by Assume Mean Method

Class	Frequency (f)	Class Mark (x)	Deviation (d = x - A)	f.d
10-30	5	20	- 40	-200
30-50	8	40	- 20	-160
50-70	12	60=A	00	00
70-90	20	80	20	400
90-110	3	100	40	120
110-130	2	120	60	120
	$\Sigma f = 50$			$\Sigma fd = 280$

$$\begin{aligned}
 \text{Mean} &= A + \frac{\sum f d}{\sum f} \\
 &= 60 + \frac{280}{50} \\
 &= 60 + 5.6 \\
 &= 65.6
 \end{aligned}$$

b. Find mean by direct and Assumed mean method

Class	00-20	20-40	40-60	60-80	80-100	100-120
Frequency	5	8	10	12	7	8

c. Find mean by direct and Assumed mean method

Class	10-30	30-50	50-70	70-90	90-110	110-130
Frequency	6	8	10	12	6	5

d. Find mean by direct and Assumed mean method

Class	50-52	52-54	54-56	56-58	58-60	60-62	62-64
Frequency	18	21	17	28	16	35	15

e. Find mean by direct and Assumed mean method

Class	0-6	6-12	12-18	18-24	24-30	30-36	36-42
Frequency	10	11	7	4	4	3	1