

## NCERT Solutions for Maths: <br> Chapter 14 - Statistics

Class 10: Maths Chapter 14 solutions. Complete Class 10 Maths Chapter 14 Notes.

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## Exercise 14.1

1. A survey was conducted by a group of students as a part of their environment awareness programme, in which they collected the

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following data regarding the number of plants in 20 houses in a locality. Find the mean number of plants per house.

|  | $0-$ | $2-$ | $4-$ | $6-$ | $8-1$ | $10-1$ | $12-1$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Number of | 2 | 4 | 6 | 8 | 0 | 2 | 4 |

$\begin{array}{llllllll}\text { Number of } & 1 & 2 & 1 & 5 & 6 & 2 & 3\end{array}$
Houses

Which method did you use for finding the mean, and why?

## Answer

No. of plants

| No. of | Mid-point |
| :--- | :--- |
| houses $\left(\mathrm{f}_{\mathrm{i}}\right)$ | $\left(\mathrm{x}_{\mathrm{i}}\right)$ |$\quad \mathrm{f}_{\mathrm{i}} \mathrm{x}_{\mathrm{i}}$

(Class
interval)

| $0-2$ | 1 | 1 | 1 |
| :--- | :--- | :--- | :--- |
| $2-4$ | 2 | 3 | 6 |
| $4-6$ | 1 | 5 | 5 |
| $6-8$ | 5 | 7 | 35 |
| $8-10$ | 6 | 9 | 54 |
| $10-12$ | 2 | 11 | 22 |
| $12-14$ | 3 | 13 | 39 |
|  | Sum $_{\mathrm{i}}=20$ |  | Sum fix $_{\mathrm{i}}=$ |
|  |  |  | 162 |

Mean $=\bar{x}=\sum \mathrm{f}_{\mathrm{i}} \mathrm{x}_{\mathrm{i}} / \sum \mathrm{f}_{\mathrm{i}}=162 / 20=8.1$
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We would use direct method because the numerical value of $f_{i}$ and $x_{i}$ are small.
2. Consider the following distribution of daily wages of 50 workers of a factory.

| Daily wages (in <br> Rs.) | $100-120$ | $120-140$ | $140-160$ | $160-180$ | $180-200$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Number of <br> workers | 12 | 14 | 8 | 6 | 10 |

Find the mean daily wages of the workers of the factory by using an appropriate method.

## Answer

Here, the value of mid-point $\left(\mathrm{x}_{\mathrm{i}}\right)$ is very large, so assumed mean $\mathrm{A}=150$ and class interval is $\mathrm{h}=20$.

So, $u_{i}=\left(x_{i}-A\right) / h=u_{i}=\left(x_{i}-150\right) / 20$
( $\mathrm{x}_{\mathrm{i}}$ )
150)/20
(Class
frequency ( $\mathrm{f}_{\mathrm{i}}$ )
interval)

| $100-120$ | 12 | 110 | -2 | -24 |
| :--- | :--- | :--- | :--- | :--- |
| $120-140$ | 14 | 130 | -1 | -14 |
| $140-160$ | 8 | 150 | 0 | 0 |
| $160-180$ | 6 | 170 | 1 | 6 |

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180-200
10
Sum $f_{i}=50$

190
2
20
Sum $\mathrm{f}_{\mathrm{i}} \mathrm{u}_{\mathrm{i}}=$ -12

Mean $=\bar{x}=A+h \sum f_{i} u_{i} / \sum f_{i}=150+(20 \times-12 / 50)=150-4.8=145.20$
Thus, mean daily wage $=$ Rs. 145.20
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3. The following distribution shows the daily pocket allowance of children of a locality. The mean pocket allowance is Rs 18 . Find the missing frequency $f$.

| Daily pocket <br> allowance (in c) | $11-13$ | $13-15$ | $15-17$ | $17-19$ | $19-21$ | $21-23$ | $23-25$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of children | 7 | 6 | 9 | 13 | $f$ | 5 | 4 |

## Answer

Here, the value of mid-point $\left(\mathrm{x}_{\mathrm{i}}\right)$ mean $\overline{\mathrm{x}}=18$

Class interval

Number of children ( $\mathrm{f}_{\mathrm{i}}$ )

7

17-19

6
9
13
14
16
$18=A$ 234

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| $19-21$ | $f$ | 20 | $20 f$ |
| :--- | :--- | :--- | :--- |
| $21-23$ | 5 | 22 | 110 |
| $23-25$ | 4 | 24 | 96 |
| Total | $f_{i}=44+f$ | Sum $f_{i} x_{i}=$ <br> $752+20 f$ |  |
| Mean $=\bar{x}=\sum f_{i} x_{i} / \sum f_{i}=(752+20 f) /(44+f)$ |  |  |  |
| $\Rightarrow 18=(752+20 f) /(44+f)$ |  |  |  |
| $\Rightarrow 18(44+f)=(752+20 f)$ |  |  |  |
| $\Rightarrow 792+18 f=752+20 f$ |  |  |  |
| $\Rightarrow 792+18 f=752+20 f$ |  |  |  |
| $\Rightarrow 792-752=20 f-18 f$ |  |  |  |
| $\Rightarrow 40=2 f$ |  |  |  |
| $\Rightarrow f=20$ |  |  |  |

4. Thirty women were examined in a hospital by a doctor and the number of heart beats per minute were recorded and summarised as follows. Find the mean heart beats per minute for these women, choosing a suitable method.

| Number of heart beats <br> per minute | $65-68$ | $68-71$ | $71-74$ | $74-77$ | $77-80$ | $80-83$ | $83-86$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of women | 2 | 4 | 3 | 8 | 7 | 4 | 2 |

## Answer

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$\mathrm{x}_{\mathrm{i}}=($ Upper limit + Lower limit)/2
Class size (h) $=3$
Assumed mean $(A)=75.5$

| Class |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Interval | Number of <br> women $\left(f_{i}\right)$ | Mid-point <br> $\left(x_{i}\right)$ | $u_{i}=\left(x_{i}-\right.$ <br> $75.5) / h$ | $f_{i} u_{i}$ |
| $65-68$ | 2 | 66.5 | -3 | -6 |
| $68-71$ | 4 | 69.5 | -2 | -8 |
| $71-74$ | 3 | 72.5 | -1 | -3 |
| $74-77$ | 8 | 75.5 | 0 | 0 |
| $77-80$ | 7 | 78.5 | 1 | 7 |
| $80-83$ | 4 | 81.5 | 3 | 8 |
| $83-86$ | 2 | 84.5 | 3 | 6 |
|  | Sum $f_{i}=30$ |  |  | Sum $f_{i} u_{i}$ |
|  |  |  |  | $=4$ |

Mean $=\overline{\mathrm{x}}=\mathrm{A}+\mathrm{h} \sum \mathrm{f}_{\mathrm{i}} \mathrm{u}_{\mathrm{i}} / \sum \mathrm{f}_{\mathrm{i}}=75.5+3 \times(4 / 30)=75.5+4 / 10=75.5+0.4=$ 75.9

The mean heart beats per minute for these women is 75.9
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5. In a retail market, fruit vendors were selling mangoes kept in packing boxes. These boxes contained varying number of mangoes. The following was the distribution of mangoes according to the number of boxes.
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| Number of mangoes | $50-52$ | $53-55$ | $56-58$ | $59-61$ | $62-64$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Number of boxes | 15 | 110 | 135 | 115 | 25 |

Find the mean number of mangoes kept in a packing box. Which method of finding the mean did you choose?

## Answer

Since, the given data is not continuous so we add 0.5 to the upper limit and subtract 0.45 from the lower limit.

Here, assumed mean $(\mathrm{A})=57$
Class size (h) $=3$

| Class <br> Interval | Number of <br> boxes $\left(\mathrm{f}_{\mathrm{i}}\right)$ | Mid-point <br> $\left(\mathrm{x}_{\mathrm{i}}\right)$ | $\mathrm{d}_{\mathrm{i}}=\mathrm{x}_{\mathrm{i}}-$ <br> A | $\mathrm{f}_{\mathrm{i}} \mathrm{d}_{\mathrm{i}}$ |
| :--- | :--- | :--- | :--- | :--- |
| 49.5-52.5 | 15 | 51 | -6 | 90 |
| $52.5-55.5$ | 110 | 54 | -3 | -330 |
| $55.5-58.5$ | 135 | $57=\mathrm{A}$ | 0 | 0 |
| $58.5-61.5$ | 115 | 60 | 3 | 345 |
| $61.5-64.5$ | 25 | 63 | 6 | 150 |

$$
\text { Sum } f_{i}=400
$$

Sum $\mathrm{f}_{\mathrm{i}} \mathrm{d}_{\mathrm{i}}=$
75

Mean $=\bar{x}=A+\sum \mathrm{f}_{\mathrm{i}} \mathrm{d}_{\mathrm{i}} / \sum \mathrm{f}_{\mathrm{i}}=57+(75 / 400)=57+0.1875=57.19$

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## 6. The table below shows the daily expenditure on food of $\mathbf{2 5}$ households in a locality.

| Daily expenditure <br> (in c) | $100-150$ | $150-200$ | $200-250$ | $250-300$ | $300-350$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Number of <br> households | 4 | 5 | 12 | 2 | 2 |

Find the mean daily expenditure on food by a suitable method.

## Answer

Here, assumed mean $(A)=225$

| Class <br> Interval | Number of <br> households $\left(f_{i}\right)$ | Mid-point <br> $\left(x_{i}\right)$ | $d_{i}=x_{i}-$ <br> $A$ | $f_{i} d_{i}$ |
| :--- | :--- | :--- | :--- | :--- |
| $100-150$ | 4 | 125 | -100 | -400 |
| $150-200$ | 5 | 175 | -50 | -250 |
| $200-250$ | 12 | 225 | 0 | 0 |
| $250-300$ | 2 | 275 | 50 | 100 |
| $300-350$ | 2 | 325 | 100 | 200 |

Sum $\mathrm{f}_{\mathrm{i}} \mathrm{d}_{\mathrm{i}}=$ -350

Mean $=\overline{\mathrm{x}}=\mathrm{A}+\sum \mathrm{f}_{\mathrm{i}} \mathrm{d}_{\mathrm{i}} / \sum \mathrm{f}_{\mathrm{i}}=225+(-350 / 25)=225-14=211$
The mean daily expenditure on food is 211
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7. To find out the concentration of $\mathrm{SO}_{2}$ in the air (in parts per million, i.e., ppm), the data was collected for 30 localities in a certain city and is presented below:

| Concentration of $\mathrm{SO}_{\mathbf{2}}$ (in ppm) | Frequency |
| :---: | :---: |
| $0.00-0.04$ | 4 |
| $0.04-0.08$ | 9 |
| $0.08-0.12$ | 9 |
| $0.12-0.16$ | 2 |
| $0.16-0.20$ | 4 |
| $0.20-0.24$ | 2 |

Find the mean concentration of $\mathrm{SO}_{2}$ in the air.
Answer

| Concentration of $\mathrm{SO}_{2}$ <br> (in ppm) | Frequency <br> $\left(\mathrm{f}_{\mathrm{i}}\right)$ | Mid-point <br> $\left(\mathrm{x}_{\mathrm{i}}\right)$ | $\mathrm{f}_{\mathrm{i}} \mathrm{x}_{\mathrm{i}}$ |
| :--- | :--- | :--- | :--- |
| $0.00-0.04$ | 4 | 0.02 | 0.08 |
| $0.04-0.08$ | 9 | 0.06 | 0.54 |
| $0.08-0.12$ | 9 | 0.10 | 0.90 |
| $0.12-0.16$ | 2 | 0.14 | 0.28 |
| $0.16-0.20$ | 4 | 0.18 | 0.72 |
| $0.20-0.24$ | 2 | 0.20 | 0.40 |
| Total | Sum $\mathrm{f}_{\mathrm{i}}=$ |  | $\mathrm{Sum}\left(\mathrm{f}_{\mathrm{i}} \mathrm{x}_{\mathrm{i}}\right)=$ |
|  | 30 |  | 2.96 |

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Mean $=\bar{x}=\sum \mathrm{f}_{\mathrm{i}} \mathrm{x}_{\mathrm{i}} / \sum \mathrm{f}_{\mathrm{i}}$
$=2.96 / 30=0.099 \mathrm{ppm}$
8. A class teacher has the following absentee record of 40 students of a class for the whole term. Find the mean number of days a student was absent.

Number of days

Number of
11 students

Answer

| Class <br> interval | Frequency <br> $\left(\mathrm{f}_{\mathrm{i}}\right)$ | Mid-point <br> $\left(\mathrm{x}_{\mathrm{i}}\right)$ | $\mathrm{f}_{\mathrm{i}} \mathrm{x}_{\mathrm{i}}$ <br> $0-6$ |
| :--- | :--- | :--- | :--- |
| 11 | 3 | 33 |  |
| $6-10$ | 10 | 8 | 80 |
| $10-14$ | 7 | 12 | 84 |
| $14-20$ | 4 | 17 | 68 |
| $20-28$ | 4 | 24 | 96 |
| $28-38$ | 3 | 33 | 99 |
| $38-40$ | 1 | 39 | 39 |

Sum $f_{i}=$ 40

Sum $\mathrm{f}_{\mathrm{i}} \mathrm{X}_{\mathrm{i}}=$ 499

Mean $=\overline{\mathrm{x}}=\sum \mathrm{f}_{\mathrm{i}} \mathrm{x}_{\mathrm{i}} / \sum \mathrm{f}_{\mathrm{i}}$
$=499 / 40=12.48$ days
9. The following table gives the literacy rate (in percentage) of 35 cities. Find the mean literacy rate.

|  | $45-5$ | $55-6$ | $65-7$ | $75-8$ | $85-9$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Literacy rate | 5 | 5 | 5 | 5 | 8 |
| (in \%) |  |  |  |  |  |

$\begin{array}{llllll}\text { Number of } & 3 & 10 & 11 & 8 & 3\end{array}$ cities

## Answer

Class Interval
$\begin{array}{lllll}\text { Frequency } & \left(x_{i}\right. & d_{i}=x_{i}- & u_{i}= & f_{i} u_{i} \\ \left(\mathrm{f}_{\mathrm{i}}\right) & ) & a & d_{i} / \mathrm{h}\end{array}$

| $45-55$ | 3 | 50 | -20 | -2 | -6 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $55-65$ | 10 | 60 | -10 | -1 | -10 |
| $65-75$ | 11 | 70 | 0 | 0 | 0 |
| $75-85$ | 8 | 80 | 10 | 1 | 8 |
| $85-95$ | 3 | 90 | 20 | 2 | 6 |


| Sum $f_{i}=$ | Sum |
| :--- | :--- |
| 35 | -2 |

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Mean $=\bar{x}=a+\left(\sum f_{i} u_{i} / \sum f_{i}\right) x h$
$=70+(-2 / 35) \times 10=69.42$

## Exercise 14.2

1. The following table shows the ages of the patients admitted in a hospital during a year:

Age (in years)

| $5-1$ | $15-2$ | $25-3$ | $35-4$ | $45-5$ | $55-6$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 5 | 5 | 5 | 5 | 5 | 5 |

$\begin{array}{lllllll}\text { Number of } & 6 & 11 & 21 & 23 & 14 & 5\end{array}$ patients

Find the mode and the mean of the data given above. Compare and interpret the two measures of central tendency.

## Answer

Modal class $=35-45, \mathrm{l}=35$, class width $(\mathrm{h})=10, \mathrm{f}_{\mathrm{m}}=23, \mathrm{f}_{1}=21$ and $\mathrm{f}_{2}=$ 14

$$
\begin{aligned}
\text { Mode } & =l+\left\{\frac{f_{m}-f_{1}}{2 f_{m}-f_{1}-f_{2}}\right\} \times h \\
& =35+\left\{\frac{23-21}{46-21-14}\right\} \times 10 \\
& =35+\frac{20}{11}=35+1.8=36.8 \mathrm{yr}
\end{aligned}
$$

Calculation of Mean:

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Class Interval

Frequency Mid-point $\mathrm{f}_{\mathrm{i}} \mathrm{X}_{\mathrm{i}}$
( $\mathrm{x}_{\mathrm{i}}$ )

| $5-15$ | 6 | 10 | 60 |
| :--- | :--- | :--- | :--- |
| $15-25$ | 11 | 20 | 220 |
| $25-35$ | 21 | 30 | 630 |
| $35-45$ | 23 | 40 | 920 |
| $45-55$ | 14 | 50 | 700 |
| $55-65$ | 5 | 60 | 300 |
|  | Sum $f_{i}=$ |  | Sum $_{\mathrm{f}} \mathrm{x}_{\mathrm{i}}=$ |
|  | 80 |  | 2830 |

Mean $=\bar{x}=\sum \mathrm{f}_{\mathrm{i}} \mathrm{x}_{\mathrm{i}} / \sum \mathrm{f}_{\mathrm{i}}$
$=2830 / 80=35.37 \mathrm{yr}$
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2. The following data gives the information on the observed lifetimes (in hours) of 225 electrical components :

Lifetime (in

| $0-2$ | $20-4$ | $40-6$ | $60-8$ | $80-1$ | $100-1$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 0 | 0 | 0 | 0 | 00 | 20 | hours)

$\begin{array}{lllllll}\text { Frequency } & 10 & 35 & 52 & 61 & 38 & 29\end{array}$

Determine the modal lifetimes of the components.
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## Answer

Modal class of the given data is $60-80$.
Modal class $=60-80, \mathrm{l}=60, \mathrm{f}_{\mathrm{m}}=61, \mathrm{f}_{1}=52, \mathrm{f}_{2}=38$ and $\mathrm{h}=20$

$$
\begin{aligned}
\text { Mode } & =l+\left\{\frac{f_{m}-f_{1}}{2 f_{m}-f_{1}-f_{2}}\right\} \times h \\
& =60+\left\{\frac{61-52}{122-52-38}\right\} \times 20 \\
& =60+\frac{9 \times 20}{32}=60+\frac{45}{8}=60+5.625=65.625 \mathrm{~h}
\end{aligned}
$$

3. The following data gives the distribution of total monthly household expenditure of 200 families of a village. Find the modal monthly expenditure of the families. Also, find the mean monthly expenditure :

Expendit
Number of
ure

1000-150 24
0
1500-200 40
0
2000-250 33
0
2500-30028

0
3000-350 30
0

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```
3500-400 22
0
4000-450 16
0
4500-500 7
0
```


## Answer

Modal class $=1500-2000, \mathrm{I}=1500, \mathrm{f}_{\mathrm{m}}=40, \mathrm{f}_{1}=24, \mathrm{f}_{2}=33$ and $\mathrm{h}=500$

$$
\begin{aligned}
\text { Mode } & =l+\left\{\frac{t_{m}-t_{1}}{2 f_{m}-t_{1}-t_{2}}\right\} \times h=1500+\left\{\frac{40-24}{80-24-33}\right\} \times 500 \\
& =1500+\frac{16 \times 500}{23}=1500+\frac{8000}{23} \\
& =1500+347.83 \\
& =₹ 1847.83
\end{aligned}
$$

Calculation for mean:

|  | fi | xi | $\mathrm{di}=\mathrm{xi}-$ | $\mathrm{ui}=$ |
| :--- | :--- | :--- | :--- | :--- |
| Class | fiui |  |  |  |
| Interval |  |  | a | $\mathrm{di} / \mathrm{h}$ |


| $1000-1500$ | 24 | 125 | -1500 | -3 | -72 |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | 0 |  |  |  |
| $1500-2000$ | 40 | 175 -1000 -2 -80 <br>   0  <br> $2000-2500$ 33 225 -500 <br>   -1 -33 |  |  |  |


| $2500-3000$ | 28 | 275 | 0 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- |

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|  |  | 0 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3000-3500 | 30 | $\begin{aligned} & 325 \\ & 0 \end{aligned}$ | 500 | 1 | 30 |
| 3500-4000 | 22 | $\begin{aligned} & 375 \\ & 0 \end{aligned}$ | 1000 | 2 | 44 |
| 4000-4500 | 16 | $\begin{aligned} & 425 \\ & 0 \end{aligned}$ | 1500 | 3 | 48 |
| 4500-5000 | 7 | $\begin{aligned} & 475 \\ & 0 \end{aligned}$ | 2000 | 4 | 28 |
|  | $\begin{aligned} & \mathrm{fi}= \\ & 200 \end{aligned}$ |  |  |  | $\begin{aligned} & \text { fiui }= \\ & -35 \end{aligned}$ |

Mean $=\bar{x}=a+\left(\sum \mathrm{f}_{\mathrm{i}} \mathrm{u}_{\mathrm{i}} / \sum \mathrm{f}_{\mathrm{i}}\right) \mathrm{xh}$
$=2750+(35 / 200) \times 500$
$=2750-87.50=2662.50$
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[^0]:    https://www.indcareer.com/schools/ncert-solutions-for-chapter-14-statistics/

