

Chapter 11

Statistics

Questions: 11.1–11.20

Concept : Mean from a frequency table

Q.11.1 The table below shows the classification of students in Class 10 according to their weights:

WEIGHT (KG)	NUMBER OF CHILDREN
30–35	3
35–40	8
40–45	12
45–50	9
50–55	6
55–60	2

Find the mean weight

Score : 4, Time : 6 minutes

Concept : Mean from a frequency table

Q.11.2 The table shows the classification of the days of November according to the minimum temperature at Munnar

TEMPERATURE (°C)	NUMBER OF DAYS
0–5	2
5–10	3
10–15	7
15–20	10
20–25	6
25–30	2

Find the mean minimum temperature for this month

Score : 4, Time : 6 minutes

Concept : Median from a frequency table

Q.11.3 The table below shows the classification of students in Class 10 according to their heights:

HEIGHT (CM)	NUMBER OF CHILDREN
135–140	3
140–145	5
145–150	14
150–155	12
155–160	6
160–165	2

Find the median height

Score : 5, Time : 8 minutes

Concept : Median from a frequency table

Q.11.4 The table shows the classification of families in a locality, according to their monthly electricity bills

ELECTRICITY BILL (RS)	NUMBER OF FAMILIES
50–150	4
150–250	5
250–350	7
350–450	18
450–550	32
550–650	20
650–750	8
750–850	4
850–950	2

Find the median amount paid in electricity bills

Score : 5, Time : 8 minutes

Concept : Median from a frequency table

Q.11.5 For making cones, children cut out several sectors of circles. The table shows the number of sectors made, classified according to central angles

CENTRAL ANGLE (°)	NUMBER OF SECTORS
0–45	1
45–90	3
90–135	10
135–180	12
180–225	11
225–270	8
270–315	3
315–360	2

Find the median angle

Score : 5, Time : 8 minutes

Concept : Computation of mean

Q.11.6 The table shows the number of children getting different scores in a test.

SCORE	NUMBER OF CHILDREN
5	1
6	3
7	10
8	12
9	9
10	5

Calculate the mean score

Score : 3, Time : 4 minutes

Concept : Computation of mean

Q.11.7 The table shows the number of workers earning different daily wages in a locality

DAILY WAGES (Rs)	NUMBER OF WORKERS
300	1
325	4
400	6
425	6
450	4
475	2
500	2

Find the mean daily wages

Score : 3, Time : 3 minutes