

# NCERT Solutions Class 10 Maths

## Chapter 13: Surface Areas and Volumes

### Exercise 13.2

#### Document Information:

Class: 10 | Subject: Mathematics | Chapter: 13 | Exercise: 13.2

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## Complete Solutions

### Question 1

#### QUESTION

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

Age (in years)	5–15	15–25	25–35	35–45	45–55	55–65
Number of patients	6	11	21	23	14	5

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

#### ANSWER

Mode of the data = 36.8 years

Mean of the data = 35.37 years

Interpretation: The maximum number of patients admitted in the hospital are of age about 36.8 years (modal age), while on an average a patient admitted is about 35.37 years old (mean age).

## Question 2

### QUESTION

The following data give the information on the observed lifetimes (in hours) of 225 electrical components:

Lifetimes (in hours)	0–20	20–40	40–60	60–80	80–100	100–120
Frequency	10	35	52	61	38	29

Determine the modal lifetime of the components.

### ANSWER

Modal lifetime of the components = 65.625 hours

## Question 3

### QUESTION

The following distribution gives the total monthly household expenditure of 200 families of a village:

Expenditure (in ₹)	1000–1500	1500–2000	2000–2500	2500–3000	3000–3500	3500–4000	4000–4500	4500–5000
Number of families	24	40	33	28	30	22	16	7

Find the modal monthly expenditure of the families. Also, find the mean monthly expenditure.

### ANSWER

Modal monthly expenditure = ₹ 1847.83 (approximately)

Mean monthly expenditure = ₹ 2662.5

### Question 4

#### QUESTION

The following distribution gives the state-wise teacher–student ratio in higher secondary schools of India:

Number of students per teacher	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55
Number of states / U.T.	3	8	9	10	3	0	0	2

Find the mode and mean of this data. Interpret the two measures.

#### ANSWER

Mode of the data = 30.6 students per teacher

Mean of the data = 29.2 students per teacher

Interpretation: In most states / U.T., the typical teacher–student ratio is about 30.6 (modal value), while on an average the ratio is about 29.2 students per teacher (mean value).

### Question 5

#### QUESTION

The following distribution shows the number of runs scored by some top batsmen of the world in one-day international cricket matches:

Runs scored	3000–4000	4000–5000	5000–6000	6000–7000	7000–8000	8000–9000	9000–10000	10000–11000
Number of batsmen	4	18	9	7	6	3	1	1

Find the mode of the data.

#### ANSWER

Mode of the data = 4608.7 runs (approximately)

## Question 6

### QUESTION

A student noted the number of cars passing through a spot on a road for 100 periods each of 3 minutes and summarised it in the following table:

Number of cars	0–10	10–20	20–30	30–40	40–50	50–60	60–70	70–80
Frequency	7	14	13	12	20	11	15	8

Find the mode of the data.

### ANSWER

Mode of the data = 44.7 cars

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