

Data Handling

Q1. Find the measure of central tendency referred to and fill in the blank:

- a. The value of the variable which divides the whole group into two equal parts : _____
- b. The value of the variable which occurs most frequently in a given set of data : _____
- c. The average value of a given set of data : _____

Q2. The following table shows five year data of the number of students who enrolled for diploma courses in an institute:

| Year | Number of students |
|------|--------------------|
| 1997 | 1080 |
| 1998 | 1150 |
| 1999 | 2002 |
| 2000 | 1250 |
| 2001 | 1383 |

Find the mean enrolment for this period of five years.

Answer: _____

Q3. The number of goals scored by a football team in the last 10 matches are: 3, 3, 2, 1, 2, 4, 2, 2, 1, 0. Find the mean of the number of goals scored.

Answer: _____

Q4. If the mean of 12, 7, 8, 14, $y + 3$, 5 is 9, find the value of y .

Answer: _____

Q5. The mean marks of a class of 40 students were calculated as 23. On rechecking, it was found that the marks of a student was 24 but was wrongly taken as 14 for computation of mean. Find the corrected mean value.

Answer: _____

Q6. Harish went for trekking and walked for x km on the first day. From the second day onwards, each day he walked 1 km more than the previous day. If he had a five day trip, the average distance covered by Harish is:

- a. $(x + 1)$ km
- b. $(x + 2)$ km
- c. $(x + 3)$ km
- d. $(x + 5)$ km

Q7. Seven children were asked the number of hours they spent studying every day. The data recorded (in hours) is given below:

3, 1, 5, 4, 3, 4, 2

Find the mean and median of the above data. Fill in the blanks and tick the correct option:

Mean : _____

Median : _____

Mean is (less than / greater than / equal to) median.

Q8. 15 students were asked about the vehicle they use to commute to school. The following data was recorded:

bus, bicycle, bus, car, scooter, bicycle, scooter, car, scooter, bus, bicycle, car, bus, bus, car

Arrange the data in the table given below and find the mode of the above data.

| Vehicle | Scooter | Bus | Car | Bicycle |
|-----------|---------|-----|-----|---------|
| Frequency | | | | |

Mode of the data : _____

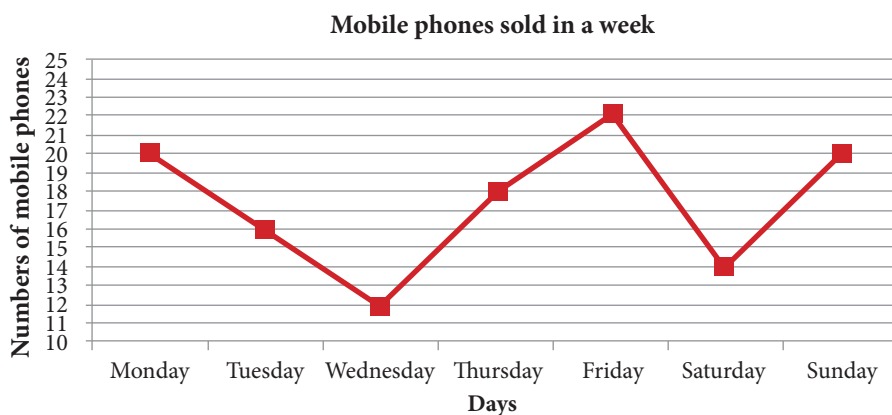
Q9. The following data represents the sale of refrigerator sets in a showroom in six months:

| Month | Number of refrigerators sold |
|----------|------------------------------|
| January | 25 |
| February | 20 |
| March | 32 |
| April | 30 |
| May | 45 |
| June | 32 |

Draw a bar graph for the data given above and fill in the blanks:

- The average sale in the period of six months is _____.
- The minimum sales were made in the month of _____.
- The total sale made in the first two months was _____.
- Equal number of sales were made in _____ and _____.

Q10. The following graph shows information about the number of mobile phones sold by a shop in a certain week. Observe the graph carefully and fill in the blanks given below:



- The sale was maximum on _____.
- _____ phones were sold on Tuesday.
- Same number of phones were sold on _____ and _____.
- The sale was minimum on _____.

a. Friday; b. 16; c. Monday and Sunday ; d. Wednesday

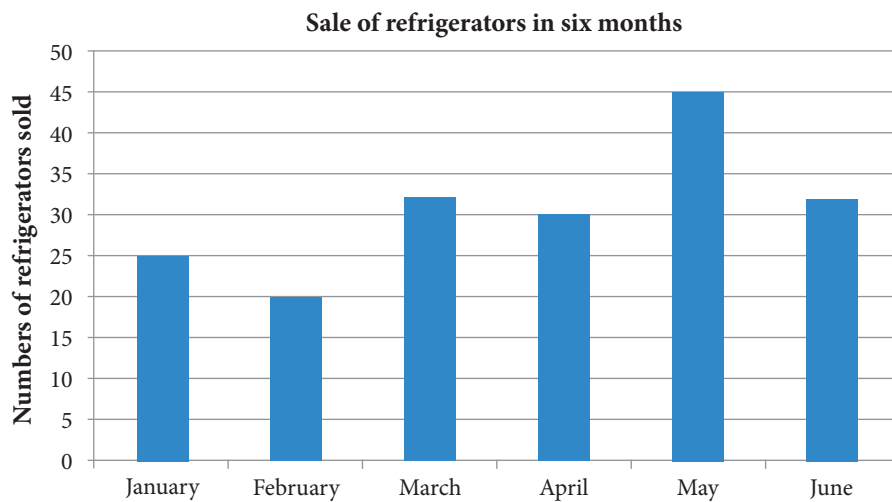
Answers

1. a. Median; b. Mode; c. Mean
2. 1373 students
3. 2 goals
4. $y = 5$
5. 23.25
6. (b)
7. Mean = 3.14 hours; Median = 3 hours; Mean is greater than Median
- 8.

| Vehicle | Scooter | Bus | Car | Bicycle |
|-----------|---------|-----|-----|---------|
| Frequency | 3 | 5 | 4 | 3 |

Mode of the data: Bus (as bus has maximum frequency)

9. a. 30.67; b. February; c. 45; d. March and June



10. a. Friday; b. 16; c. Monday and Sunday ; d. Wednesday