

Worksheet

Exercise 14.2

I. Very Short Answer Type Questions

1. Write the modal class of the following frequency distribution:

<i>Class interval</i>	10–20	20–30	30–40	40–50	50–60	60–70
<i>Frequency</i>	33	38	65	52	19	4

2. Write the median of the following data: 3, 5, 2, 9, 7, 11

3. In an arranged series of an even number of $2n$ terms which term is median?

II. Short Answer Type Questions - I

4. Find the median class of following data:

<i>Class interval</i>	0–10	10–20	20–30	30–40	40–50	50–60
<i>Frequency</i>	8	10	12	22	30	1

5. Calculate the median of the following data:

(i) 37, 31, 42, 43, 46, 25, 39, 43, 42

(ii) 83, 37, 70, 45, 29, 41, 63, 30

6. Find the lower limit of median class of the following frequency distribution:

<i>Class</i>	0–5	6–11	12–17	18–23	24–29
<i>Frequency</i>	13	10	15	8	11

7. Find the median class of the following distribution:

<i>Class</i>	0–10	10–20	20–30	30–40	40–50	50–60
<i>Frequency</i>	4	4	8	10	12	1

8. Calculate mode of the following data:

<i>Marks obtained</i>	0–20	20–40	40–60	60–80	80–100
<i>No. of students</i>	5	10	12	6	3

10. The given distribution shows the number of runs scored by some top batsmen of the day international cricket matches.

<i>Runs scored</i>	<i>Number of batsmen</i>
3000-4000	4
4000-5000	18
5000-6000	9
6000-7000	7
7000-8000	6
8000-9000	3
9000-10000	1
10000-11000	1

Find the mode of the data.

11. The following is the distribution of the long jump competition organised for 50 students distance.

<i>Distance (in m)</i>	0-20	20-40	40-60	60-80	80-100
<i>No. of students</i>	6	11	17	12	4

12. Find the unknown entries a , b , c , d , e and f in the following distribution of heights of a class.

<i>Height (in cm)</i>	<i>Frequency</i>	<i>Cumulative frequency</i>
150-155	12	a
155-160	b	25
160-165	10	c
165-170	d	43
170-175	e	48
175-180	2	f
Total	50	

13. The maximum bowling speeds, in km per hour, of 33 players at a cricket coaching camp are as follows.

<i>Speed (in km/h)</i>	85-100	100-115	115-130	130-145
<i>Number of players</i>	11	9	8	5

Calculate the median bowling speed.

14. The annual rainfall record of a city of 100 days is given in the following table:

	0-10	10-20	20-30	30-40	40-50	50-60	60-70
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