STATISTICS

MEDIAN, MODE AND RELATIONSHIP

BETWEEN MEAN, MEDIAN AND MODE

EXERCISE

Q.1 Find the median of the following data : 25, 34, 31, 23, 22, 26, 35, 28, 20, 32

Q.2 Find the median of the following values : 37, 31, 42, 43, 46, 25, 39, 45, 32

Q.3 The median of the observations 11, 12, 14, 18, $x + 2$, $x + 4$, 30, 32, 35, 41 arranged in ascending order is 24. Find the value of x.

Q.4 Find the median of the following data : 19, 25, 59, 48, 35, 31, 30, 32, 51. If 25 is replaced by 52, what will be the new median.

Q.5 Calculate the median for the following distribution

Weight (in kg)	Number of students
46	3
47	2
48	4
49	6
50	5
51	2
52	1

Q.6 The following data have been arranged in desending orders of magnitude 75, 70, 68, $x + 2$, $x - 2$, 50, 45, 40 If the median of the data is 60, find the value of x.

Q.7 Find the mode from the following data : 110, 120, 130, 120, 110, 140, 130, 120, 140, 120.

Q.8 Compute mode for the following data 7, 7, 8, 8, 8, 9, 9, 10, 10, 10, 11, 11, 12, 13, 13

Q.9 The following table gives the weights of 40 men. Calculate mode.

Weights (in kg)	Number of men
54	6
72	6
80	1
64	2
62	6
60	5
58	5
56	4
63	5

ANSWER KEY

1. 27

2. 39.

3. $x = 21$.

4. Median $= 32$ New median $= 35$.

5. 49

6. $x = 60$

7. 120.

8. 10.54

9. 59.75 kg