ICSE WORKSHEET FOR CHAPTER-15 STATISTICS CLASS 9

OBJECTIVE

1. If the arithmetic mean of 5,7, 9,x is 9 then the value of x is
   1. 11
   2. 15
   3. 18
   4. 16
2. If the mean and median of a set of nos. are 8 and 9 respectively then the mode will be
   1. 7.2
   2. 8.2
   3. 9.2
   4. 10.2
3. A student got marks in 5 subjects in a monthly test is given below:
   2, 3,4,5,6, in these obtained marks 4 is the
   1. Mean and Median
   2. Median but no mean
   3. Mean but not the median
   4. Mode
4. Which one of the following is not correct-?
   1. Statistics is liable to be misused
   2. The data collected by the investigator to be used by himself are called primary data
   3. Statistical laws are exact
   4. Statistics do not take into account of individual cases.
5. The following no. are given 61 62 63 61 63 64 64 60 65 63 64 65 66 64 the difference between their mean and median is
   1. 0.4
   2. 0.3
   3. 0.2
   4. 0.1

6. The value of $\sum_{i=1}^{n}(x, -\bar{x})$ where is the arithmetic mean of x_i is
   1. a) 1
   2. b) n
   3. c) 0
   4. d) None of these
7. The average of 15 numbers is 18.The average of first 8 is 9 and that last is 17 then the 8th number is
   1. 15
   2. 16
   3. 18
   4. 20

SUBJECTIVE

1. 1) Find the median of
2. i) 5 30 15 6 18 22 26 32 6 9 18
3. ii) 92 88 62 53 55 59 60 61 85 89
4. iii) 66 69 108 72 78 82 98 99 102 101
5. 2). Find the missing frequencies of the following distribution if its known that the mean of the distribution is 50.
6. X : 10 30 50 70 90 total
7. F : 17 f_1 32 f_2 19 120
8.   3. Find the mean for the following data

Age (years)	25-30	30-35	35-40	40-45	45-50	50-55
No. of teachers	30	23	20	14	10	3

9. The mean of a certain group of observation is 78. Find the resulting mean if the value of each observation is:
   1. increased by 2
   2. decreased by 3
   3. multiplied by 1.5
   4. divided by 2
   5. increased by 30 %
   6. diminished by 25%

10. Draw a histogram to represent the following data:

Class interval	40-60	60-80	80-100	100-120	120-140	140-160	160-180	180-200
Frequency	20	40	30	50	30	20	10	40

11. Draw a bar graph to represent the following:

A	B	C	D	E	F
60	70	55	40	90	50

Solutions:

Objective:
1. b
2. c
3. a
4. d
5. c
6. b
7. c
8. c

Subjective:
1. 18,
2. 61.5,
3. 90
4. 28, 24
5. 35.5
6. 80,
7. 75,
8. 117,
9. 39,
10. 101.4,
11. 58.5