



ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian minority Institution

Subject: Mathematics

Class- X

Date:23/11/2020

Answer key of Worksheet-6

Chapter: statistics

Topic- Median and Mode

1. Choose the correct alternative. $1 \times 15 = 15$
- a) Median for grouped data is $l + \frac{\frac{n}{2} - c}{f} \times h$ i) absolute frequency of the pre-median class ii) **less than type cumulative frequency of the pre-median class** iii) frequency density of the pre-median class iv) none of these
- b) nine conical flasks have sodium chloride solution of different quantities. The amount of solution in each flask is given below 2, 10, 16, 2, 20, 18, 22, 14, 9. Then median is
i) **14** ii) 12.6 iii) 16 iv) 18
- c) Scores obtained by 10 students in a quiz are 11, 6, 7, 13, 1, 13, 16, 7, 13, 16. Then median is i) 8 ii) **7** iii) 13 iv) 16
- d) Mode is the i) middle most frequent value ii) least frequent value iii) **maximum frequent value** iv) none of these
- e) Which of the following can not be determined graphically?
i) **mean** ii) median iii) mode iv) none of these

f)

C.I	0-5	6-11	12-17	18-23	24-29
F	26	20	30	16	22

The upper limit of the median class is i) 18.5 ii) 18 iii) 17.5 iv) 17

g)

marks	Less than 20	Less than 40	Less than 60	Less than 80	Less than 100	Less than 120
No of students	4	12	25	56	74	80

The modal class is i) 20-40 ii) 40-60 iii) 60-80 iv) 80-100

h) To find the____you put all the numbers in order from least to greatest and find the number that is in the middle.

i) mean ii) median iii) mode iv) none of these

i)The mode score on the 6th grade maths test was 94 .Which of these interpretations must be correct?

i)more students received 94 than any other score

ii) no one scored below 50

iii)A score of 91 was slightly below average

iv) 99 is the highest score in the class

j)

Length of diameter	44	45	46	47	48	49
frequency	12	15	23	20	15	16

What is the median of the above data?

i) 46.5 ii) 46 iii) 47.5 iv) 48.5

k)we have recorded the number of days one student was present in school in this month.These are 20 days, 25 days, 10 days, 18 days, 21 days , 18 days, 16 days, 22 days.Find the median of the number of days .

i) 20 days ii) 18 days iii) 19 days iv) 25 days

l)The selling price of Madhu's uncle's shop per day in the last week were 107, 201, 92, 52, 113,75,195 . find the median.

i) Rs 106 ii) **Rs 107** iii) Rs 109 iv) Rs 201

m)If the age (in years) of some animals are 6, 10, 5,4,9,11,20,18.Find the median.

i)**9.5 years** ii) 9 years iii) 8.5 years iv) none of these

n)

Class interval	51-60	61-70	71-80	81-90	91-100	101-110
frequency	4	10	15	20	15	4

Find the median.

i) 84 ii) **83** iii) 81 iv) 80

o)If 35 is removed from the data 30, 34, 35, 36,37, 38, 39, 40 then the median increases by

i) 2 ii) 1.5 iii) 1 iv) **0.5**

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