MATHS

BOOKS - KALYANI MATHS (ASSAMESE ENGLISH)

STATISTICS

Example

1. Find the value of median from the following series:

4, 6, 7, 8, 12, 10, 14, 13

2. Find the value of median from the following

x	1	2	3	4	5	6	7	8⁻	9
f	5	6	7	2	2	1	2	1	1

data:

3. Calculate the median from the following data:

Marks	0–10	10–30	30–60	60–80	80–90
No. of students	5	15	30	8	2

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4. The median and mode of a data are 33 and 45 respectively. Find its mean.

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5. Find K, if Mean=Mode+K(Mean-Median).

Exercise

1. If the mean of the following data is 18.75 ,find the value of p.

mean of the following data is 18.75, find the value of p.

x_i	10	15	p	25	30
f_i	5	10	7	8	2

2. If the mean of the following data is 21.5,find the value of k.

mean of the following data is 21.5, find the value of k.

x_i	5	15	25	35	45
f_i	6	4	3	k	2

3. If the mean of the following data is 7.5,find the value of p.

lean of the following data is 7.5. Find the value of p.

x_i	3	5	7	9	11	13
f_i	6	8	15	p	8	4

mean of the following data

4. Find the mean of the following data:

mean of the following data

Class	0–10	10–20	20–30	30–40	40–50
Frequency	3	5	9	5	3

Class	10–20	20–30	30–40	40–50	50–60

5. Find the mean of the following data:

Frequency	5	5	7	5	5
Class	10–20	20–30	30–40	40–50	50–60
Frequency	5	8	13	15	9

n by deviation method or assume mean method

6. Find mean by deviation method or assume mean method:

Classes	0–100	100–200	200–300	300–400	400–500
Frequency	6	9	15	12	8

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7. Find mean by deviation method or assume mean method:

Frequency	6	9	15	12	8

Classes	50–70	70–90	90–110	110–130	130–150	150–170
Frequency	18	12	13	27	8	22

8. The mean of the following frequency distribution is 53,find the value of p.

mean of the following frequency distribution is 53. Find the value of p.

Classes	0–20	20–40	40–60	60–80	80–100
Frequency	12	15	32	p	13

9. The mean of the following frequency distribution is 5,find the value of f.

e mean of the following frequency distribution is 5, find the value of f.

lass	0–20	20–40	40–60	60–80	80–10
requency	17	28	32	f	19

10. The given distribution shows the number of runs scored by some batsman in one day cricket matches,find the mode.

Run Scored	3000-4000	4000-5000	5000-6000	6000-7000	7000-8000	8000-9000	9000-10000	10000-11000
No of batsmen	4	18	9	7	6	3	1	1

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11. Answer the following questions

The median and mode of a distribution are 21.2 and 21.4. Find its mean.

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12. Answer the following questions

Write two uses of medians.

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13. Answer the following questions

Find the median of 6,8,9,10,11,12,13.

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14. Answer the following questions

Find the mode of the following data:

2,6,4,5,0,2,1,3,2,3

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15. Answer the following questions

Find the mean of 45,35,20,30,15,25,40

16. Fill up the blanks

In a class interval 10-20, the lower limit is ....and upper limit is ....

17. Fill up the blanks

Three measures of .... are mean, median and mode.

18. Fill up the blanks

..............is given by the x-co-ordinate of the point of intersection is more then ogive and less then ogive.

19. Fill up the blanks

The empirical relation between mean,median and mode is..........

20. Fill up the blanks

Cumulative frequency polygon is known as.............

21. Choose the correct option.

If the mean of x observation is p and each observation is multiplied by k. Then the new mean will be

    A. kp

    B. $\dfrac{p}{k}$

    C. $p + k$

    D. $p - k$

Answer:

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22. Choose the correct option.

The mean of numbers 1,2,3.......100 is

    A. 5050

    B. 5000

    C. 500

    D. 1000

Answer:

23. For a symmetrical frequency distribution we have

A. $mean < \mod e < median$

B. $mean = median = \mod e$

C. $mean > \mod e > median$

D. none

Answer:

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24. Choose the correct option.

If the mean of data is 110 and median is 100 then mode is

A. 70

B. 80

C. 100

D. 90

Answer:

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25. Choose the correct option.

The mean of first five prime number is

A. 5.5

B. 5.4

C. 5.6

D. 5.8

Answer:

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