



MATHS

BOOKS - UNITED BOOK HOUSE

Taki House Govt. Sponsored Girls High School, Question Paper

Exercise

1. Find the maximum value of $24x - 8 - 9x^2$

for real x

A. $\frac{4}{3}$

B. $\frac{3}{4}$

C. 8

D. none of these

Answer:



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2. Marks of students in a test is

A. attribute

B. discrete variable

C. continuous variable

D. none of these

Answer:



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3. Mode depends on change of

A. origin only

B. scale only

C. both origin and scale

D. neither origin nor scale

Answer:



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4. A train ran at x km per hour from A to B and returned from B to A at y km for hour. The average speed (in km hour) is

A. $\frac{x + y}{2}$

B. \sqrt{xy}

C. $\frac{2xy}{x+y}$

D. none of these

Answer:



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5. The mode can be obtained geometrically from

A. ogive

B. histogram

C. frequency polygon

D. none of these

Answer:



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6. Bar diagrams are applicable to represent.

A. time series data

B. spatial series data

C. both a and b

D. none of these

Answer:



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7. What is the difference between line diagram and ratio chart?



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8. Define frequency density of a class interval.



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9. The A.M. of $1, 2, 2^2, \dots, 2^9$ is _____ (fill in the blanks)



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10. The difference between the upper and lower limits of a class interval is its width.

(write True or false)



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11. Describe cross sectional data with their utility.



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12. Define ordinal and nominal data.



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13. If the relation between two variables y and x is $x - 3y = 6$ and S.D. of y is 2, then find the variance of 'x'.



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14. What are the merits of arithmetic mean?



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15. Write the two meanings of statistics.



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16. Write down the merits and demerits of mass questionnaire method.



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17. Write the significance of E.T.S.



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18. Compare bantulation with diagrammatic representation of data.



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19. How would you construct a frequency distribution of a continuous variable?



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20. If $x > 0$, $y > 0$, $z > 0$ and $x + y + z = 1$,

prove

that

$$(1 + x)(1 + y)(1 + z) \geq 8(1 - x)(1 - y)(1 - z)$$



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21. Find the arithmetic mean of 7, 77,

777. ____ upto p^{th} term.



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22. If the values of a variable are in G.P, then prove that A.M., G.M., H.M. of the values are also in G.P.



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23. For a set of positive quantities, Prove that
 $A. M. \geq GM \geq H. M. .$



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24. Show that $\sum_{i=1}^n (x_i - A)^2$ is minimum

when $A = \bar{x}$.



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