

India's Number 1 Education App

MATHS

BOOKS - UNITED BOOK HOUSE

Taki House Govt. Sponsored Girls High School, Question Paper



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:



2. Marks of students in a test is

A. attribute

- B. discrete variable
- C. continuous variable
- D. none of these

Answer:

- 3. Mode depends on change of
 - A. origin only
 - B. scale only

C. both origin and scale

D. neither origin nor scale

Answer:



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.
$$\sqrt{xy}$$

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

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

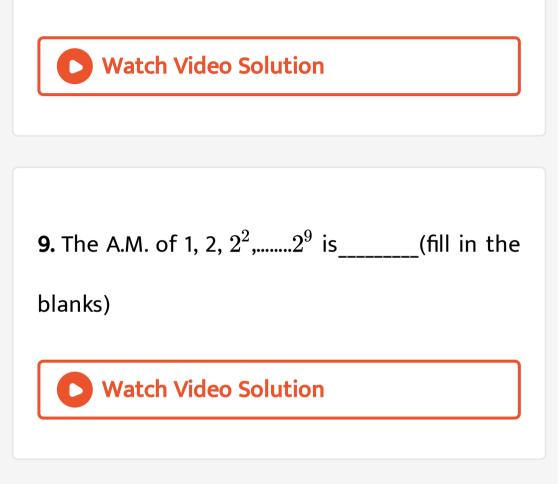
Answer:



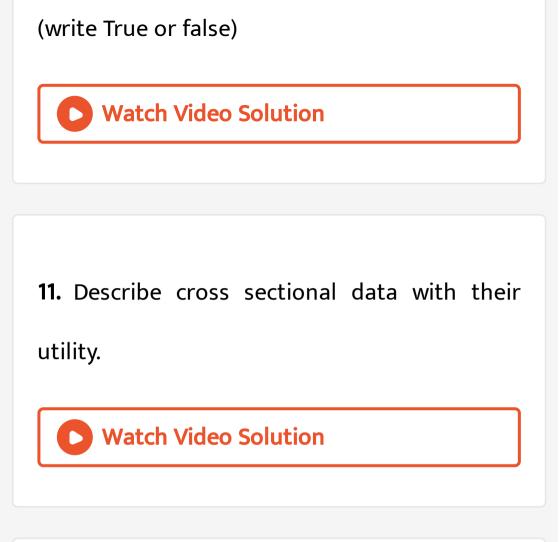
7. What is the difference between line diagram

and ratio chart?

8. Define frequency density of a class interval.



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



12. Define ordianl and nominal data.

13. If the relation between two variables y and

x is x - 3y = 6 and S.D. of y is 2, then find the

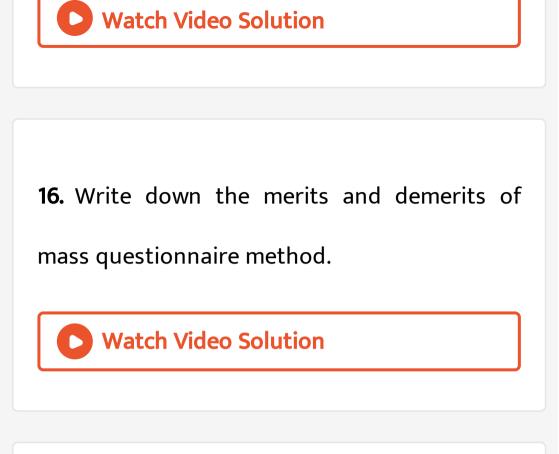
variance of 'x.



14. What are the merits of arithmetic mean?



15. Write the two meanings of statistics.



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



18. Compare bantulation with diagrammatic

representation of data.

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19. How would you construct a frequency

distribution of a continuous variable?

20. If
$$x > 0, y > 0, z > 0$$
 and $x + y + z = 1$,
prove that
 $(1 + x)(1 + y)(1 + z) \ge 8(1 - x)(1 - y)(1 - z)$
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21. Find the arithmetic mean of 7, 77, 777.____upto p^{th} term.

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.



23. For a set of positive quantities, Prove that

 $A. M. \geq GM \geq H. M.$

24. Show that

$$\sum_{i=1}^n \left(x_i-A
ight)^2$$
 is minimum

when $A = \bar{x}$.