

NAME :

CLASS & SEC. :

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STATISTICS AND PROBABILITY

"Life is a School of Probability" - Walter Bagehot



Multiple choice questions

- Which of the following is not a measure of dispersion?
(A) Range (B) Standard deviation
(C) Arithmetic mean (D) Variance
- The range of the data 8, 8, 8, 8, 8, ... 8 is
(A) 0 (B) 1 (C) 8 (D) 3
- The sum of all deviations of the data from its mean is
(A) Always positive (B) always negative (C) zero (D) non-zero integer
- The mean of 100 observations is 40 and their standard deviation is 3. The sum of squares of all observations is
(A) 40000 (B) 160900 (C) 160000 (D) 30000
- Variance of first 20 natural numbers is
(A) 32.25 (B) 44.25 (C) 33.25 (D) 30
- The standard deviation of a data is 3. If each value is multiplied by 5 then the new variance is
(A) 3 (B) 15 (C) 5 (D) 225
- If the standard deviation of x, y, z is p then the standard deviation of $3x + 5, 3y + 5, 3z + 5$ is
(A) $3p + 5$ (B) $3p$ (C) $p + 5$ (D) $9p + 15$
- If the mean and coefficient of variation of a data are 4 and 87.5% then the standard deviation is
(A) 3.5 (B) 3 (C) 4.5 (D) 2.5
- Which of the following is incorrect?
(A) $P(A) > 1$ (B) $0 \leq P(A) \leq 1$ (C) $P(\phi) = 0$ (D) $P(A) + P(\bar{A}) = 1$
- The probability a red marble selected at random from a jar containing p red, q blue and r green marbles is
(A) $\frac{q}{p+q+r}$ (B) $\frac{p}{p+q+r}$ (C) $\frac{p+q}{p+q+r}$ (D) $\frac{p+r}{p+q+r}$
- A page is selected at random from a book. The probability that the digit at units place of the page number chosen is less than 7 is
(A) $\frac{3}{10}$ (B) $\frac{7}{10}$ (C) $\frac{3}{9}$ (D) $\frac{7}{9}$
- The probability of getting a job for a person is $\frac{x}{3}$. If the probability of not getting the job is $\frac{2}{3}$ then the value of x is
(A) 2 (B) 1 (C) 3 (D) 1.5
- Kalam went to play a lucky draw contest. 135 tickets of the lucky draw were sold. If the probability of Kalam winning is $\frac{1}{9}$, then the number of tickets bought by Kalam is
(A) 5 (B) 10 (C) 15 (D) 20
- If a letter is chosen at random from the English alphabets $\{a, b, \dots, z\}$, then the probability that the letter chosen precedes x
(A) $\frac{12}{13}$ (B) $\frac{1}{13}$ (C) $\frac{23}{26}$ (D) $\frac{3}{26}$
- A purse contains 10 notes of ₹2000, 15 notes of ₹500, and 25 notes of ₹200. One note is drawn at random. What is the probability that the note is either a ₹500 note or ₹200 note?
(A) $\frac{1}{5}$ (B) $\frac{3}{10}$ (C) $\frac{2}{3}$ (D) $\frac{4}{5}$

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