

MATHS

CLASS X

8. Statistics and Probability

Multiple choice questions (QR code)

- The range of first 10 prime numbers is
(1) 9 (2) 20 (3) 27 (4) 5
- If the smallest value and co-efficient of range of a data are 25 and 0.5 respectively. Then the largest value is
(1) 25 (2) 75 (3) 100 (4) 12.5
- If the observations 1, 2, 3, ... 50 have the variance V_1 and the observations 51, 52, 53, ... 100 have the variance V_2 then $\frac{V_1}{V_2}$ is
(1) 2 (2) 1 (3) $\frac{1}{2}$ (4) 0
- If the standard deviation of a variable x is 4 and if $y = \frac{3x+5}{4}$, then the standard deviation of y is
(1) 4 (2) 3.5 (3) 3 (4) 2.5
- If the data is multiplied by 4, then the corresponding variance is get multiplied by

- (1) 4 (2) 16 (3) 2 (4) None

6. If the co-efficient of variation and standard deviation of a data are 35% and 7.7 respectively then the mean is

- (1) 20 (2) 30 (3) 25 (4) 22

7. The batsman A is more consistent than batsman B if

- (1) C.V of $A >$ C.V of B (2) C.V of $A <$ C.V of B
(3) C.V of $A =$ C.V of B (4) C.V of $A \geq$ C.V of B

8. If an event occurs surely, then its probability is

- (1) 1 (2) 0 (3) $\frac{1}{2}$ (4) $\frac{3}{4}$

9. A letter is selected at random from the word 'PROBABILITY'. The probability that it is not a vowel is

- (1) $\frac{4}{11}$ (2) $\frac{7}{11}$ (3) $\frac{3}{11}$ (4) $\frac{6}{11}$

10. In a competition containing two events A and B , the probability of winning

the events A and B are $\frac{1}{3}$ and $\frac{1}{4}$ respectively and the probability of

winning both the events is $\frac{1}{12}$. The probability of winning only one event is

- (1) $\frac{1}{12}$ (2) $\frac{5}{12}$ (3) $\frac{1}{12}$ (4) $\frac{7}{12}$

11. A number x is chosen at random from $-4, -3, -2, -1, 0, 1, 2, 3, 4$. The probability that $|x| \leq 3$ is

- (1) $\frac{3}{9}$ (2) $\frac{4}{9}$ (3) $\frac{2}{9}$ (4) $\frac{7}{9}$

12. If the probability of non-happening of an event is q , then the probability of happening of the event is

- (1) $1-q$ (2) q (3) $\frac{q}{2}$ (4) $2q$

13. In one thousand lottery tickets, there are 50 prizes to be given. The probability of Mani winning a prize who bought one ticket is

- (1) $\frac{1}{50}$ (2) $\frac{1}{100}$ (3) $\frac{1}{1000}$ (4) $\frac{1}{20}$

14. When three coins are tossed, the probability of getting the same face on all the three coins is

- (1) $\frac{1}{8}$ (2) $\frac{1}{4}$ (3) $\frac{3}{8}$ (4) $\frac{1}{3}$

15. A box contains some milk chocolates and some coco chocolates and there are 60 chocolates in the box. If the probability of taking a milk chocolate is

$\frac{2}{3}$ then the number of coco chocolates is

- (1) 40 (2) 50 (3) 20 (4) 30