



# MATHS

**BOOKS - VGS BRILLIANT MATHS**

**(TELUGU ENGLISH)**

**PROBABILITY (MULTIPLE CHOICE**

**QUESTION)**

**Probability Multiple Choice Question**

1. The probability that a leap year will have 52 tuesdays is.....

A.  $\frac{1}{7}$

B.  $\frac{3}{7}$

C.  $\frac{2}{7}$

D.  $\frac{5}{7}$

**Answer: D**



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2. The probability of drawing a card which is at least a spade (or) a king from a well shuffled pack of cards is.....

A.  $\frac{4}{13}$

B.  $\frac{2}{13}$

C.  $\frac{1}{13}$

D.  $\frac{5}{13}$

**Answer: A**



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3. IF A,B,C are three mutually exclusive events of a trial such that  $P(A)=2P(B)=3P(C)$  then  $P(A)=\dots\dots$

A.  $\frac{11}{6}$

B.  $\frac{5}{11}$

C.  $\frac{6}{11}$

D. 1

**Answer: C**



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4. A bag contains 3 red, 4 white and 5 blue balls. If two balls are drawn at random. The probability that they are of different colours is.....

A.  $\frac{47}{66}$

B.  $\frac{10}{33}$

C.  $\frac{5}{22}$

D.  $\frac{2}{11}$

**Answer: A**



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5. A card is drawn at random from normal pack of cards. The probability that it is either a spade or a queen is.....

A.  $\frac{13}{4}$

B.  $\frac{4}{13}$

C.  $\frac{1}{2}$

D. 1

**Answer: B**



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6. The probability that a leap year have 53 sundays is.....

A.  $\frac{7}{2}$

B.  $\frac{1}{2}$

C.  $\frac{2}{7}$

D.  $\frac{5}{2}$

**Answer: C**



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7. The probabilities of solving a problem by three students A,B,C independently are  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ . The probability that the problem will be solved is.....

A.  $\frac{1}{60}$

B.  $\frac{36}{60}$

C.  $\frac{48}{60}$

D.  $\frac{57}{60}$

**Answer: B**





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8. IF  $P(A \cup B)=0.65$ ,  $P(A \cap B)=0.15$ , then

$P(A)+P(B)=\dots\dots\dots$

A. 0.6

B. 0.8

C. 1.2

D. 1.4

**Answer: B**



9. The probability of getting a number between 1 and 100 which is divisible by one and itself only is.....

A.  $\frac{98}{25}$

B.  $\frac{1}{2}$

C.  $\frac{97}{25}$

D.  $\frac{25}{98}$

**Answer: D**



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10. The probability of getting at least two heads, when tossing a coin three times is.....

A.  $\frac{1}{2}$

B. 2

C.  $\frac{1}{4}$

D. 1

**Answer: A**



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11. IF  $P(A)=0.4, P(A \cup B)=0.7$  and  $A, B$  are independent, then  $P(B)=\dots\dots$

A. 1

B. -1

C.  $\frac{1}{2}$

D.  $\frac{1}{4}$

**Answer: C**



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12. Card is drawn at random from a packet of 100 cards numbered 1 to 100. The probability of drawing a number which is a square is.....

A. 1

B.  $\frac{1}{4}$

C.  $\frac{1}{5}$

D.  $\frac{1}{10}$

**Answer: D**



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13. Three balls are drawn at random from collection of 7 white, 12 green and 4 red balls, The probability that each ball is of different colours is.....

A.  $\frac{48}{253}$

B.  $\frac{8}{253}$

C.  $\frac{9}{257}$

D. None

**Answer: A**



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14. At a selection, the probability of selection of A is  $\frac{1}{7}$  and that of B is  $\frac{1}{5}$ , The probability that both if them would not be selected is.....

A.  $\frac{2}{5}$

B.  $\frac{24}{35}$

C.  $\frac{13}{15}$

D. None

**Answer: B**



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15. Three mangoes and three apples are in a box. IF two fruits are chosen at random the probability that one is a mango and the other is an apple is.....

A. None

B.  $\frac{3}{5}$

C.  $\frac{5}{6}$

D.  $\frac{1}{36}$



**Answer: B**



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**16.** A card is taken out of a pack of 52 cards numbered 2 to 53. The probability that the number on the card is a prime less than 20 is.....

A.  $\frac{2}{13}$

B.  $\frac{13}{2}$

C.  $\frac{1}{4}$

D. None

**Answer: A**



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**17.** The probabilities of a problem being solved by two students are  $\frac{1}{2}$  and  $\frac{1}{3}$ . The probability of the problem being solved is.....

A.  $\frac{2}{3}$

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

C.  $\frac{1}{3}$

D. 1

**Answer: A**



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**18.** When two dice are thrown, the probability of getting equal number is.....

A. 6

B.  $\frac{1}{6}$

C.  $\frac{1}{5}$

D.  $\frac{1}{2}$

**Answer: B**



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**19.** When two balls are drawn from a bag containing 2 white, 4 red and 6 black balls, the chance for both of them to be red is.....

A.  $\frac{1}{10}$

B.  $\frac{1}{5}$

C.  $\frac{1}{11}$

D.  $\frac{1}{2}$

**Answer: C**



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**20.** Two dice thrown simultaneously. The probability of getting even numbers on both the dice is.....

A.  $\frac{1}{4}$

B.  $\frac{1}{2}$

C.  $\frac{1}{3}$

D. None

**Answer: A**



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