MATHS

BOOKS - MBD NCERT SOLUTIONS

PROBABILITY

Multiple Choice Questions

1. Probability of getting 8 in a single throw of die is :

A. 1

B. 0

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

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

Answer:

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2. Probability of getting 6 in a single throw of a die is

A. 1

B. 0

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

D. None of these

Answer: A

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3. Probability of getting 3 in a single throw of a die is :

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

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

C. 1

D. 0

Answer: A

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4. Probability of getting 7 in a single throw of a die will be

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

B. 1

C. 0

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

Answer:

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5. If $P(E) = 0.05$, then $P(\neg E) = -0.05$

(b) 0.5 (c) 0.9 (d) 0.95

A. 0.05

B. 0.5

C. 0.95

D. None of these

Answer:

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6. If P(E) =0.07 then the P (not E) is :

A. 0.07

B. 0.93

C. 0.3

D. 0

Answer: C

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7. If P (E) = 0.3 then the P (not E) is :

A. 0.97

B. 0.7

C. 0.93

D. 0

Answer:

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8. If P (not A) = 0.04 then the P (A) is :

A. 0.04

B. 0

C. 0.96

D. 0.6

Answer:

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9. One card is drawn from a well shuffled deck of 52 cards . The probability of getting a queen is :

A. $\frac{1}{12}$

B. $\frac{1}{52}$

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

D. None of these

Answer: A::C

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10. Which of the following cannot be probability of any event ?

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

B. 0.25

C. 0.5

D. -3.4

Answer: C::D

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11. The probability of an event is greater then or equal to ..... and less then or equal to ..... .

A. 1,0

B. $-1, 1$

C. 0 ,1

D. 0

Answer: C

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12. Which of the following cannot be the probability of an event ?

A. 0.8

B. 0.09

C. -2.3

D. $\frac{4}{5}$

Answer: B::C

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13. A die is thrown once. The probability of getting an even numbers is

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

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

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

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

Answer: A

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14. If P (E) =0.01 then the value of P $\left(\overline{E}\right)$ will be

A. 0.99

B. 9.9

C. 0.09

D. None of these

Answer:

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15. By throwing a die once the probability of getting a number greater than 4 is :

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

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

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

D. None of these

Answer: A::C

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16. One card is drawn from a well shuffled deck of 52 cards. Find the probability of getting: (i) a king of red suit (ii) a face card (iii) a red face card

A. $\frac{3}{13}$

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

C. $\frac{1}{26}$

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

Answer: A::B

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17. If P (E) =0.68 then the value of P $\left(\overline{E}\right)$ will be

:

A. 1.32

B. -0.68

C. 3.2

D. 0.32

Answer: B::C

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18. A die is thrown once . What is the probability of getting a number lying between 2 and 6 ?

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

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

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

D. None of these

Answer: A::B

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19. A card is drawn from a well-shuffled pack of 52 cards. Find the probability of getting (i) a red face card (ii) a black king .

A. $\frac{5}{26}$

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

C. $\frac{3}{26}$

D. $\frac{1}{26}$

Answer: B::C

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20. Complete the following statement :

$P(\overline{E})$ = ... -P (E)

A. 1

B. 2

C. 0

D. -1

Answer: A

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21. A die is rolled. Find the probability of getting a number greater than 6.

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

B. 1

C. 0

D. None of these

Answer:

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22. A dice is thrown once. Find the probability of getting a prime number .

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

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

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

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

Answer: A::B

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23. If P (E) = 0.7 then P $\left(\overline{E}\right)$ is :

A. 0.2

B. 0.4

C. 0.3

D. None of these

Answer: C

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24. The probability of getting a head when a coin is tossed once is :

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

B. 1

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

D. None of these

Answer: A::B

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25. If P $\left(\overline{E}\right)$ = 0.4 then P (E) is

A. 0.5

B. 0.7

C. 0.2

D. 0.6

Answer:

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26. The probability of an event E is a number P (E) such that :

A. $0 \leq P(E) \leq 1$

B. $1 \leq P(E) \leq 2$

C. P (E) =5

D. $3 < = P(E) < = 4$

Answer: A

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27. From the following which number cannot be the probability of any number :

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

B. -1.5

C. 15%

D. 0.7%

Answer: A

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28. From the following which number cannot be the probability of any event .

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

B. -1.5

C. -15%

D. 0.7

Answer: A

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Very Short Answer Type Questions

1. Two dice are thrown at the same time . Find the probability of getting sum dice is 8 .

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2. Two dice are thrown at the same time . Find the probability of getting sum of the dice is 13 .

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3. Two dice are thrown at the same time . Find the probability of getting the sum on dice is less than or equal to 12 .

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Short Answer Type Questions

1. One card is drawn from a well shuffled deck of cards . Calculate the probability that the card will .

(i) be an ace (ii) not be an ace .

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2. One card is drawn from a well shuffled deck of cards . Find the probability of getting a king

of red colour .

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3. One card is drawn from a well - shuffled deck of cards . Find the probability of getting a face card .

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4. One card is drawn from a well - shuffled deck of cards . Find the probability of getting the

jack of hearts .

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5. One card is drawn from a well - shuffled deck of cards . Find the probability of getting the queen of diamonds.

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6. A box contains 5 red , 8 white and 4 green balls . A ball is drawn at random. Find the

probability of getting a red ball. Also find the probability that the ball is not green .

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7. A card is drawn from a well shuffled deck of playing cards. Find the probability of getting the spade card. Also find the probability that the card is not king .

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8. A box contains 6 red 7 white and 5 black balls . A ball is drawn at random. Find the probability that the ball is white . Also find the probability that the ball is not red .

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9. A card is drawn from a well shuffled pack of playing cards . Find the probability that card drawn is a heard card . Also find the probability that card is not an ace.

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10. It is given that in a group of 3 students the probability of 2 students not having the same birthday is 0.922 . What is the probability that the 2 students have the same birthday ?

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11. A die is thrown once . Find the probability of getting any number lying between 2 and 5 .

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12. A box contains 3 blue 2 white and 4 red marbles . If a marble is drawn at random from the box what is the probability that it will be (i) white ? (ii) not blue ?

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13. A bag contains 3 red balls and 5 black balls. A ball is drawn at random from the bag. What

is the probability that the ball drawn is (i) red? (ii) not red?

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14. Five cards the ten, jack, queen king and ace of diamonds, are well-shuffled with their face downwards. One card is then picked up at random. What is the probability that the card is the queen?

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15. A game of chance consists of spinning an arrow which comes to rest pointing at one of the numbers 1,2 3,4,5,6,7,8 and these are equally likely outcomes what is the probability that it will point at :

(i) 8?

(ii) an odd number ?

(iii) a number greater than 2 ?

(iv) a number less than 9 ?

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16. A lot of 20 eggs contains 5 defective eggs . One egg is drawn at random from the lot . What is the probability that

(i) This egg is defective ? (ii) This egg is not defective ?

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17. A die is thrown once. Find the probability of getting (i) a prime number; (ii) a number lying between 2 and 6; (iii) an odd number.

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18. A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from the box, find the probability that it bears (i) a two-digit number (ii) a perfect square number (iii) a number divisible by 5.

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19. 12 defective pens are accidently mixed with 132 good ones. It is not possible to just look at

pen and tell whether or not it is defective. one pen is taken out at random from this lot. Determine the probability that the pen taken out is good one.

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20. A lot consists of 144 ball pens of which 20 are defective and the others are good. Nuri will buy a pen if it is good, but will not buy if it is defective. The shopkeeper draws one pen at

random and gives it to her. What is the probability that (i

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