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India's Number 1 Education App

## MATHS

## BOOKS - VGS BRILLIANT MATHS

## (TELUGU ENGLISH)

## PROBABILITY

Examples

1. Find the probability of getting a head when
a coin is tossed once. Also find the probability
of getting a tail.

## D Watch Video Solution

2. A bag contains a red ball, a blue ball and an
yellow ball, all the balls being of the same size
. Manasa takes out a ball from the bag without
looking into it. What is the probability that
she takes a (i) yellow ball? (ii) red ball? (iii) blue ball?

## D Watch Video Solution

3. Suppose we throw a dice once. What is the probability of getting a number greater than $4 ?$
( Watch Video Solution
4. Suppose we throw a dice once. What is the probability of getting a number less than or equal to 4 ?

## D Watch Video Solution

5. One card is drawn from a well-shuffled deck of 52 cards. Calculate the probability that the card will be an ace.

## - Watch Video Solution

6. One card is drawn from a well-shuffled deck of 52 cards. Calculate the probability that the card will not be an ace.

## - Watch Video Solution

7. Sangeeta and Reshma , play a tennis match.

It is known that the probability of sangeeta winning the match is 0.62 . What is the probability of Reshma winning the match?

## - Watch Video Solution

8. Sarada and Hamida are friends. What is the probability that both will have different birthdays?
9. Sarada and Hamida are friends. What is the probability that both will have the same birthday?(ignoring a leap year)

## D Watch Video Solution

10. There are 40 students in Class $X$ of a school of whom 25 are girls and 15 are boys. The class teacher has to select one student as a class representative. She writes the name of each
student on a separate cards, the cards being
identical. Then she puts cards in a box and stirs them thoroughly. She then draws one card from the box.What is the probability that the name written on the card is the name of a girl

## D Watch Video Solution

11. There are 40 students in Class $X$ of a school
of whom 25 are girls and 15 are boys. The class
teacher has to select one student as a class
representative. She writes the name of each
student on a separate cards, the cards being
identical. Then she puts cards in a box and stirs them throughly. She then draws one card from the box.What is the probability that the name written on the card is the name of a boy?

## D Watch Video Solution

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 white?

## D Watch Video Solution

13. 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 blue?
14. 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 red?

## - Watch Video Solution

15. Harpreet tosses two different coins simultaneously (say, one is of Rs1 and other of

Rs2). What is the probability that she gets at least one head?
16. In a musical chair game, the person playing the music has been advised to stop playing the music at any time within 2 minutes after she starts playing . What is the probability that the music will stop within the first halfminute starting?

- Watch Video Solution

17. A missing helicopter is reported to have crashed somewhere in the rectangular region as shown in the figure. What is the probability that it crashed inside the lake shown in the figure?

## - Watch Video Solution

18. A cartoon consists of 100 shirts of which 88 are good, 8 have minor defects and 4 have
major defects. Jhony, a trader, will only accept
the shirts which are good, but Sujatha, another trader, will only reject the shirts will have major defects. One shirt is selected at random from the carton. What is the probability that it is acceptable to Jhony?

## D Watch Video Solution

19. A cartoon consists of 100 shirts of which 88
are good, 8 have minor defects and 4 have major defects. Jhony, a trader, will only accept
the shirts which are good, but Sujatha, another trader, will only reject the shirts will have major defects. One shirt is selected at random from the carton. What is the probability that it is acceptable to Sujatha?

## D Watch Video Solution

20. Two dice, one red and one white, are thrown at the same time. Write down all the possible outcomes. What is the probability
that the sum of the two numbers appearing on the top of the dice is 8 ?

## D Watch Video Solution

21. Two dice, one red and one white , are thrown at the same time. Write down all the possible outcomes. What is the probability that the sum of the two numbers appearing on the top of the dice is 13 ?

## - Watch Video Solution

22. Two dice, one red and one white, are thrown at the same time. Write down all the possible outcomes. What is the probability that the sum of the two numbers appearing on the top of the dice is less than or equal to 12?

## - Watch Video Solution

## Try This

1. A child has a dice whose six faces show the
letters $A, B, C, D, E$ and $F$. The dice is thrown once.

What is the probability of getting $A$ ?

## D Watch Video Solution

2. A child has a dice whose six faces show the
letters $A, B, C, D, E$ and $F$. The dice is thrown once.

What is the probability of getting D ?

## D Watch Video Solution

3. Which of the following cannot be the probability of an event?
2.3

- Watch Video Solution

4. Which of the following cannot be the probability of an event?
$-1.5$
5. Which of the following cannot be the probability of an event?
(A) $\frac{2}{3}$ (B) -1.5 (C) $15 \%$ (D) 0.7

D Watch Video Solution
6. Which of the following cannot be the probability of an event?
0.7

- Watch Video Solution

7. You have a single deck of well shuffled cards.

Then,

What is the probability that the card drawn will be a queen?

## - Watch Video Solution

8. What is the probability that it is face card?

D Watch Video Solution

## 9. What is the probability that it is a spade?

## D Watch Video Solution

10. What is the probability that is the face card of spades?

## D Watch Video Solution

11. What is the probability it is not a face card?

Exercise 131

1. Complete the following statements:

Probability of an event E+Probability of the event 'not E'= $\qquad$

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2. Complete the following statements:

The probability of an event that cannot
happen is

Such as event is called an

## D Watch Video Solution

3. Complete the following statements:

The probability of an event that is certain to
happen is __ such an event is called

D Watch Video Solution
4. Complete the following statements:

The sum of the probabilities of all the elementary events of an experiments is $\qquad$ .

## D Watch Video Solution

5. Complete the following statements:

The probability of an event is greater than or equal to _____ and less than or equal to
6. Which of the following experiments have equally likely outcomes? Explain.

A driver attempts to start a car. The car starts or does not start.

## - Watch Video Solution

7. Which of the following experiments have equally likely outcomes? Explain.

A player attempts to shoot a basket-ball. She/HE shoots or misses the shot.
8. Which of the following experiments have equally likely outcomes? Explain.

A trial is made to answer a true -false question. The answer is right or wrong.

## D Watch Video Solution

9. Which of the following experiments have equally likely outcomes? Explain.

A baby is born. IT is a boy or a girl.

## Watch Video Solution

10. IF $P(E)=.05$, what is the probability of 'not E'?

## - Watch Video Solution

11. A bag contains lemon flavoured candies only. Malini takes out one candy without looking into the bag what is the probability that she takes out
an orange flavoured candy?

## - Watch Video Solution

12. A bag contains lemon flavoured candies only. Malini takes out one candy without
looking into the bag what is the probability that she takes out
a lemon flavoured candy?

Watch Video Solution
13. Rahim removes all the hearts from the cards. What is the probability of picking out an ace from the remaining pack.

## D Watch Video Solution

14. Rahim removes all the hearts from the cards. What is the probability of
picking out a diamond.
15. Rahim removes all the hearts from the cards. What is the probability of picking out a card that is not a heart.

## - Watch Video Solution

16. Rahim removes all the hearts from the
cards. What is the probability of

Picking out the ace of hearts.

- Watch Video Solution

17. It is given that in a group of 3 students, the probability of 2 students not having the same birthday is 0.992 . What is the probability that the 2 students have the same birthday?

## - Watch Video Solution

18. A die is thrown once. Find the probability of getting a prime number,

## - Watch Video Solution

19. A die is thrown once. Find the probability of
getting a number lying between 2 and 6 .

- Watch Video Solution

20. A die is thrown once. Find the probability of getting an odd number.

- Watch Video Solution

21. What is the probability of drawing out a red king from a deck of cards?

## D Watch Video Solution

22. In a bag there are 3 blue and 6 black balls
one ball is drawn at random the probability of getting blue ball is

- Watch Video Solution

1. 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 red?

## D Watch Video Solution

2. 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 not red?
3. A box contains 5 red marbles, 8 white marbles and 4 green marbles. One marble is taken out of the box at random. What is the probability that the marble taken out will be red?

## D Watch Video Solution

4. A box contains 5 red marbles, 8 white
marbles and 4 green marbles. One marble is
taken out of the box at random. What is the probability that the marble taken out will be white?

## D Watch Video Solution

5. A box contains 5 red marbles, 8 white marbles and 4 green marbles. One marble is taken out of the box at random. What is the probability that the marble taken out will be not green?
6. A kiddy bank contains hundred 50p coins,
fifity Rs1 coins, twenty Rs2 coins and ten Rs5
coins. IF it is equally likely that one of the coins will fall out when the bank is turned upside down, what is the probability that the coin will be a 50 p coins?

## - Watch Video Solution

7. A kiddy bank contains hundred 50p coins,
fifity Rs1 coins, twenty Rs2 coins and ten Rs5
coins. IF it is equally likely that one of the coins will fall out when the bank is turned upside down, what is the probability that the coin will not be a 50 p coin?

## D Watch Video Solution

8. Gopal buys a fish from a shop for his aquarium. The shopkeeper takes out one fish at random from a tank containing 5 male fish and 8 female fish (See figure). What is the probability that the fish taken out is a male
fish?

## D Watch Video Solution

9. A game of chance consists of spinning an arrow which comes to rest pointing at one of
the numbers $1,2,3,4,5,6,7,8$ (See figure), 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 ?

D Watch Video Solution
10. One card is drawn from a well-shuffled dock of 52 cards. Find the probability of getting a king of red colour?

D Watch Video Solution
11. One card is drawn from a well-shuffled dock of 52 cards. Find the probability of getting a face card?

## D Watch Video Solution

12. One card is drawn from a well-shuffled dock of 52 cards. Find the probability of getting a red face card?
13. One card is drawn from a well-shuffled dock of 52 cards. Find the probability of getting the jack of hearts?

## - Watch Video Solution

14. One card is drawn from a well-shuffled dock of 52 cards. Find the probability of getting a spade?
15. One card is drawn from a well-shuffled dock of 52 cards. Find the probability of getting the queen of diamonds?

## D Watch Video Solution

16. Five cards -the ten, jack queen, king and ace of diamond, 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?

## Watch Video Solution

17. Five cards -the ten, jack queen, king and ace of diamond, are well shuffled with their face downwards. One card is then picked up at random.

IF the queen is drawn and put aside, what is the probability that the second card picked is (a) a ace? (b) a queen?
18. 12 defective pens are accidentally mixed
with 132 good ones. IT is not possible to just
look at a 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 a good one.

## D Watch Video Solution

19. A lot of 20 bulbs contain 4 defective ones.

One bulb is drawn at random from the lot.

What is the probability that this bulb is defective? Suppose the bulb is drawn is previous case is not defective and is not replaced. Now one bulb is drawn at random from the rest. What is the probability that this bulb is not defective?

## - Watch Video Solution

20. 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 a two digit number?

## D Watch Video Solution

21. 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 a perfect square number.
22. 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 a number divisible by 5 .

## D Watch Video Solution

23. Suppose you drop a die at random on the rectangular region shown in figure. What is the probability that it will land inside the circle
with diameter 1 m ?

## - Watch Video Solution

24. A lot consists of 144 ball pens of which 20 are defective and the others are good. The shopkeeper drawn one pen at random and gives it to Sudha. What is the probability that She will buy it?
25. A lot consists of 144 ball pens of which 20 are defective and the others are good. The shopkeeper drawn one pen at random and gives it to Sudha. What is the probability that She will not buy it?

## - Watch Video Solution

26. In a bag there are 2 blue and 2 black balls
one ball is drawn at random the probability of getting black ball is
27. Two dice are rolled simultaneously and counts are added

A student argues that there are 11 possible outcomes 2,3,4,5,6,7,8,9,10,11 and 12. Therefore, each of them has a probabilty $\frac{1}{11}$. Do you agree with this argument? Justify your answer.

## D Watch Video Solution

28. A game consists of tossing a one rupee coin 3 times and noting its outcome each time. Hanif wins if all the tosses give the same result i.e, three heads or three tails, and loses other-wise. Calculate the probability that Hanif will lose the game.

## D Watch Video Solution

29. A dice is thrown twice. What is the probability that (i) 5 will not come up either
time? (ii) 5 will come up atleast once? [Hint:

Throwing a dice twice and throwing two dice simultaneously are treated as the same experiment].

## - Watch Video Solution

## Optional Exercise

1. Two customers Shyam and Ekta are visiting a
particular shop in the same week (Tuesday to

Saturday). Each is equally likely to visit the shop on the same day?

## D Watch Video Solution

2. Two customers Shyam and Ekta are visiting a particular shop in the same week (Tuesday to

Saturday). Each is equally likely to visit the shop on the consecutive days?
3. Two customers Shyam and Ekta are visiting a particular shop in the same week (Tuesday to Saturday). Each is equally likely to visit the shop on the different days?

## D Watch Video Solution

4. A bag contains 5 red balls and some blue balls, If the probability of drawing a blue ball is double that of a red ball, Find the number of blue balls in the bag.
5. A box contains 12 balls out of which $x$ are black, IF one ball is drawn at random from the box, what is the probability that it will be a black ball? If 6 more black balls are put in the box, the probability of drawing a black ball is now double of what it was before Find x .

## - Watch Video Solution

6. A jar contains 24 marbles, some are green
and others are blue. IF a marble is drawn at
random from the jar, the probability that it is green is $2 / 3$. Find the number of blue marbles in the jar.

## - Watch Video Solution

Par A Observation Material To Solve Various
Question Given In The Public Examination 1 Mark

1. IF $P(E)=3 / 4$ what is the probability of " not

## E"?

## - Watch Video Solution

2. You are writing a test if 40 objective type questions. Each question carries 1 mark. What
is the probability of marks you may get to be in multiple of 5 ?
3. A page is opened at random from a book containing 100 pages. Find the probability that the page number is a perfect square.

## - Watch Video Solution

4. IF $\mathrm{P}(\mathrm{E})=0.546$, what is the probability of "not

## E"?

## - Watch Video Solution

5. When die is rolled once unbiased what is
the probability of getting a multiple of 3 out of possible outcomes?

## D Watch Video Solution

6. The probability of an event is always in between 0 and 1 . Why?

## D Watch Video Solution

7. Find is the probability of throwing a total score of 7 with two dice.

## D Watch Video Solution

8. Find the probability of getting a prime number, when a card drawn at random from the numbered cards from 1 to 25 .

## D Watch Video Solution

9. From the first 50 natural numbers, find the probability of randomly selected number is a multiple of 3 .

## D Watch Video Solution

10. When a dice is rolled, the probability of getting a composite number is

## D Watch Video Solution

11. What is the probability of getting exactly two heads, when three coins tossed simultaneously?

## D Watch Video Solution

12. A box contains 3 blue and 4 red balls, What
is the probability that the ball taken out randomly will be red?
13. A bag contains 5 red and 8 white balls. If a ball is drawn a random from the bag. What is
the probability that it will be
(i) white ball (ii) not to be white ball.

D Watch Video Solution
2. There are 5 cards in a box with numbers 1 to

5 written on them, If 2 cards are picked out
from the box, write all the possible outcomes
and find the probability of getting both even numbers.

## D Watch Video Solution

3. IF a die is rolled, then the probability of getting an even number is.

D Watch Video Solution
4. A die is thrown once. Find the probability of getting
an odd prime number.

## D Watch Video Solution

5. There are 12 red, 18 blue and 6 white balls in
a box, when balls is drawn at random from the box, what is the probability of not getting a red ball?
6. When a card is drawn from a well shuffled deck of 52 cards, then find the probability of NOT getting a red faced card.

## D Watch Video Solution

7. There are 5 red balls, 4 green balls and 6
yellow balls in a box. IF a ball is selected at random, what is the probability of not getting a yellow ball?
8. One card is selected from a well shuffled deck of 52 cards. Find the probability of getting a red card with prime number.

## D Watch Video Solution

9. From the following data. Find the probability of selecting 'B' blood group student.

## Watch Video Solution

10. What is the probability of a number picked
from first twenty natural numbers is even composite number?

## (D) Watch Video Solution

Par A Observation Material To Solve Various
Question Given In The Public Examination 4 Mark

1. From a deck of 52 playing cards, king, Ace and 10 of clubs were removed and remaining cards were well shuffled. IF a card is drawn at random from the remaining, find the probability of getting a card of

Club

## D Watch Video Solution

2. From a deck of 52 playing cards, king, Ace and 10 of clubs were removed and remaining
cards were well shuffled. IF a card is drawn at random from the remaining, find the probability of getting a card of Ace

## D Watch Video Solution

3. From a deck of 52 playing cards, king, Ace and 10 of clubs were removed and remaining cards were well shuffled. IF a card is drawn at random from the remaining, find the
probability of getting a card of

## Diamong king

## D Watch Video Solution

4. From a deck of 52 playing cards, king, Ace and 10 of clubs were removed and remaining cards were well shuffled. IF a card is drawn at random from the remaining, find the probability of getting a card of

Club 5.
5. A bag contains 20 discs, which are numbered from 1 to 20 . If one disc is drawn at random from the bag, find the probability that it bears:
an even number.

## D Watch Video Solution

6. A bag contains 20 discs, which are numbered from 1 to 20 . If one disc is drawn at random from the bag, find the probability that
it bears:

## Prime number.

## D Watch Video Solution

7. A bag contains 20 discs, which are numbered from 1 to 20 . If one disc is drawn at random from the bag, find the probability that it bears:

Multiple of 5.

D Watch Video Solution
8. A bag contains 20 discs, which are numbered from 1 to 20 . If one disc is drawn at random from the bag, find the probability that it bears:

Two digit odd number.

## - Watch Video Solution

9. There are 100 flash cards labelled from 1 to

100 in a bag. When a card is drawn from the bag at random, what is the probability of getting.
a card with prime number from possible outcomes?

## D Watch Video Solution

10. There are 100 flash cards labelled from 1 to

100 in a bag. When a card is drawn from the bag at random, what is the probability of getting.
a card without prime number from possible outcomes?
11. A shopkeeper has 100 memory cards in a box. Among then, 15 memory cards are defective. When a person came to the shop to buy a memory card, the shopkeeper drew a memory card at random from the box. Then, what is the probability that this memory card is defective?

D Watch Video Solution
12. A shopkeeper has 100 memory cards in a box. Among them 15 memory cards Are defective when a person came to the shop to buy a memory cards, the shopkeeper draw a memory card at random from the box then (i)

What is the probability that memory card is defective? (ii) After drawing the first memory card which is defective, it is not placed back in the box". Then what is the probability that this memory card is not defective.
13. A bag contains 5 red balls and some blue balls, If the probability of drawing a blue ball is double that of a red ball, Find the number of blue balls in the bag.

## - Watch Video Solution

14. Two dice are rolled at same time and the
sum of the numbers appearing on them is noted. Find the probability of getting each sum from 3 to 5 separately.
15. A bag contains some square cards. A prime number between 1 and 100 has been written on each card. Find the probability of getting a card that the sum of the digits of prime number written on it, is 8 .

## - Watch Video Solution

16. From the deck of 52 cards, if a card is randomly chosen , find the probability of
getting a card with a prime number on it?

## D Watch Video Solution

17. From the deck of 52 cards, if a card is
randomly chosen , find the probability of getting a card with face on it?

## - Watch Video Solution

18. Two dice are thrown at the same time what
is the probability that the sum of two
numbers appearing on the top of the dice is 10.

## D Watch Video Solution

19. Two dice are thrown at the same time what is the probability that the sum of two numbers appearing on the top of the dice is less than or equal to 12.
20. Two dice are thrown at the same time what
is the probability that the sum of two numbers appearing on the top of the dice is a prime number.

## D Watch Video Solution

21. Two dice are thrown at the same time what
is the probability that the sum of two numbers appearing on the top of the dice is multiple of 3 ?

## Creative Question For Cce Model Examination

1. There are 3 red and 4 white balls in a bag. If
a ball is taken randomly then calculate the probability of it to be a red ball.

## - Watch Video Solution

2. There are 3 red and 4 white balls in a bag. If
a ball is taken randomly then calculate the
probability of it to be a white ball.

## D Watch Video Solution

3. Find the probability of existing 53 sundays
in a common year.

## D Watch Video Solution

4. In a skinner numbered from $1-20$, find the probability of getting of following
prime number.

## - Watch Video Solution

5. In a skinner numbered from 1-20, find the probability of getting of following composite number.

## D Watch Video Solution

6. In a skinner numbered from $1-20$, find the probability of getting of following multiple of three.

## Watch Video Solution

7. When a six face die is rolled find the probability of getting the following getting less than five.

## D Watch Video Solution

8. When a six face die is rolled find the probability of getting the following getting more than five.
9. In a bag there are 3 red and 3 black balls one ball is drawn at random the probability of getting red ball is

## D Watch Video Solution

10. In a 50 marks examination,there is $80 \%$ possibility to pass in that exam. So find the probability for pass in exam.
11. In a class 32 students out of 60 take tea. So
find the probability of choosing randomly a student who doesn't take tea.

## D Watch Video Solution

12. In a bag there are 3 red and 8 black balls one ball is drawn at random the probability of getting red ball is

## Part B Observation Bits To Solve Various Bits

 Given In The Public Examination1. Karishma and Reshma are playing chess. The probability of winning Karishma is 0.59 . Then probability of Reshma winning the match is s...........
A. 1
B. 0.46
C. 0.5

## D. 0.41

## Answer: D

## D Watch Video Solution

2. Vinneta said that probability of impossible events is 1, Dhanalakshmi said that probability of sure event is ' $O$ ' and Sireesha said that probability of any event lies in between 0 and 1. In the above with whom will you agree?

# B. Dhanalakshmi 

C. Sireesha
D. All the three

## Answer: C

## D Watch Video Solution

3. A page is opened at random from a book containing 90 pages. Then the probability of a page number is a perfect square is.
A. $\frac{90}{90}$
B. $\frac{2}{90}$
C. $\frac{1}{10}$
D. None

## Answer: C

## D Watch Video Solution

4. In a bag there are 3 blue and 2 black balls
one ball is drawn at random the probability of getting blue ball is
A. $\frac{3}{5}$
B. $\frac{3}{3}$
C. $\frac{5}{5}$
D. $\frac{5}{3}$

Answer: A

## D Watch Video Solution

5. What is the probability of drawing out a red king from a deck of cards?
A. $\frac{1}{3}$
B. $\frac{1}{26}$
C. $\frac{1}{2}$
D. 1

Answer: B

## - Watch Video Solution

6. Getting a prime or composite number is a ................event.
A. mutually exclusive
B. equally likely
C. 0
D. None

Answer: A

D Watch Video Solution
7. The probability of getting a head when a coin is tossed once is
A. 0
B. $\frac{1}{2}$
C. $\frac{1}{4}$
D. 1

Answer: B

## D Watch Video Solution

8. Which one of the following can not be the probability of an event?
A. 0.7
B. $\frac{2}{3}$
C. -1.5
D. $\frac{4}{5}$

Answer: C

## D Watch Video Solution

9. IF $\mathrm{P}(\mathrm{E})=0.26$, then $\mathrm{P}(\bar{E})=. . . . . . . .$.
A. 0.74
B. 0
C. 0.26
D. 1

Answer: A

## D Watch Video Solution

10. Probability of getting 7 , when a dice is
rolled, is.
A. $\frac{1}{6}$
B. $\frac{1}{7}$
C. $\frac{6}{7}$
D. 0

## Answer: D

## D Watch Video Solution

11. Which of the following situations have equally likely events?
1) getting 1 or 2 or 3 or 4 or 5 or 6 when a dice is rolled
2) Winning or loosing a game
3) Head or Tail, when a coin is tossed
A. 1 and 2
B. 2 and 3
C. 1 and 3
D. All

Answer: D
( Watch Video Solution
12. The probability of picking a letter from the set of English alphabets is $\frac{5}{26}$. The alphabet can be.
A. consonant
B. vowel
C. any alphabet
D. None

Answer: B

D Watch Video Solution
13. IF a die is rolled, then the probability of getting a prime number is
A. $\frac{2}{5}$
B. $\frac{1}{3}$
C. $\frac{1}{2}$
D. $\frac{1}{6}$

Answer: C
( Watch Video Solution
14. Which of the following cannot be the probability of an event?

15\%
A. 0.2
B. $\frac{2}{5}$
C. 0.72
D. $1 . \overline{3}$

## Answer: D

15. From a deck of cards, a card is drawn at random, then the probability of getting a red king is.

> A. $\frac{1}{13}$
> B. $\frac{3}{14}$
> C. $\frac{3}{26}$
> D. $\frac{1}{26}$

Answer: D

- Watch Video Solution

16. IF $\mathrm{P}(\mathrm{E})=1$, then $\mathrm{P}(\bar{E})=. . . . . . . . .$.
A. 0
B. 1
C. $\frac{2}{3}$
D. $\frac{3}{2}$

Answer: A
17. When a die is rolled, the probability of getting an odd prime number is
A. $\frac{1}{3}$
B. $\frac{2}{3}$
C. $\frac{1}{6}$
D. 3

Answer: A
(D) Watch Video Solution
18. The probability that the sum of two numbers appearing on the top of the dice is 13 , when two dice are rolled at the same time is
A. -1
B. 1
C. 2
D. 0

Answer: D

# 19. IF $\mathrm{P}(\mathrm{E})=0.05$, then $\mathrm{P}(\bar{E})=. . . . . .$. 

A. 0.5
B. 0.95
C. 9.5
D. 0.095

Answer: B
( Watch Video Solution

## 20. Which of the following be the probability

 of an event?A. -1.5
B. 0.7
C. -2.4
D. -1.15

Answer: D

D Watch Video Solution
21. $\mathrm{P}(\mathrm{E})=0.65$ then $\mathrm{P}(\bar{E})=. . . . .$.
A. 0.25
B. 1
C. 0.35
D. 0

Answer: C

D Watch Video Solution
22. IF $\mathrm{P}(\mathrm{E})=0.82$ then $\mathrm{P}(\bar{E})=. . . . . . .$.
A. 0.18
B. 0.28
C. 0.38
D. $\mathrm{P}(\mathrm{E})=\mathrm{P}(\bar{E})$

Answer: A

D Watch Video Solution
23. Let $\mathrm{E}, \bar{E}$, be the complimentary events, in a random experiment, then which of the following is true?
A. $\mathrm{P}(\mathrm{E})+\mathrm{P}(\bar{E})=2$
B. $\mathrm{P}(\mathrm{E})+\mathrm{P}(\bar{E})=3$
C. $\mathrm{P}(\bar{E})+\mathrm{P}(\mathrm{E})=1$
D. $\mathrm{P}(\bar{E})+\mathrm{P}(\mathrm{E})=4$

Answer: C

D Watch Video Solution
24. Which one of the following cannot be the probability of an event?
A. $\frac{2}{3}$
B. $\frac{4}{5}$
C. 0.7
D. $-\frac{5}{4}$

## Answer: D

## D Watch Video Solution

25. On random selection, the probability of getting a composite number among the numbers from 51 to 100.
A. $\frac{4}{5}$
B. $\frac{1}{5}$
C. $\frac{3}{5}$
D. $\frac{2}{5}$

Answer: A

## D Watch Video Solution

26. Let E, and $\bar{E}$, be the complimentary events.

IF $\mathrm{P}(\bar{E})=0.65 \mathrm{~m}$ then $\mathrm{P}(\mathrm{E})=\ldots . . . . . .$.
A. 0.40
B. 0.45
C. 0.35
D. 0.30

## Answer: D

## - Watch Video Solution

27. At what value of ' $x$ ', $\frac{5}{x}$ may possible probability of an event?
A. 2
B. 1
C. 6
D. 4

Answer: C

## - Watch Video Solution

## 28. IF $P(E)$ is the probability of an event $E$,

then..........
A. $0<P(E)<1$
B. $0 \leq P(E)<1$
C. $0 \leq P(E) \leq 1$
D. $0<P(E) \leq 1$

## Answer: C

## D Watch Video Solution

29. The probability of getting right answer to a question is 0.68 , the probability of getting a
A. 0.32
B. 0.32
C. 32
D. A and B

Answer: D

- Watch Video Solution


## Creative Bits For Cce Model Examination

## 1. Two fair dice are rolled and the face values

are added. The probability of getting an odd
number greater than 8 is

> A. $\frac{2}{9}$
> B. $\frac{1}{6}$
> C. $\frac{1}{4}$
> D. $\frac{1}{9}$

Answer: B

D Watch Video Solution
2. A jar contains 3 mangoes and $x$ guavas. Two
fruits are pulled from the jar without replacement. An expression that represents the probability one fruit is mango and the next fruit is guava is.
A. $\left(\frac{3}{x+3}\right)\left(\frac{x-1}{x+2}\right)$
B. $\left(\frac{3}{x+3}\right)\left(\frac{x}{x+2}\right)$
c. $\left(\frac{3}{x+3}\right)\left(\frac{x-1}{x-2}\right)$
D. $\frac{3 \times 2}{(x+3)(x+2)}$

Answer: B
3. A card is pulled from a deck of 52 cards, The probability of obtaining a club is
A. $\frac{1}{3}$
B. $\frac{13}{26}$
C. $\frac{2}{11}$
D. $\frac{1}{4}$

Answer: D
4. Three different greetings cards and their corresponding covers are randomly strewn about on a table. IF Sita puts the greetings cards into the covers at random, the probability of correctly matching of all the greeting cards and covers is
A. $\frac{5}{6}$
B. $\frac{2}{3}$
C. $\frac{1}{6}$
D. $\frac{1}{9}$

## Answer: C

## D Watch Video Solution

5. When a coin is tossed, the probability of getting a head is
A. $\frac{1}{2}$
B. $\frac{1}{4}$
C. $\frac{1}{3}$
D. $\frac{1}{6}$

Answer: A

## D Watch Video Solution

6. IF a die is rolled, then the probability of getting an even number is.
A. $\frac{1}{6}$
B. $\frac{1}{3}$
C. $\frac{1}{2}$
D. $\frac{2}{5}$

## Answer: C

## D Watch Video Solution

7. IF two dice ar rolled at a time then the probability that the two faces show different numbers is
A. $\frac{1}{6}$
B. $\frac{35}{36}$

> C. $\frac{5}{6}$
> D. $\frac{1}{36}$

## Answer: C

## D Watch Video Solution

8. Find the probability of getting the same number on the both the dice when two dice are thrown.
A. $\frac{1}{6}$
B. $\frac{1}{4}$
C. $\frac{1}{12}$
D. $\frac{1}{3}$

Answer: A

## - Watch Video Solution

## 9. The probability of getting a number less

than 5 when a die is rolled is

$$
\text { A. } \frac{4}{5}
$$

B. $\frac{2}{3}$
C. $\frac{3}{6}$
D. $\frac{1}{6}$

Answer: B

## D Watch Video Solution

10. IF a card is drawn from a pack the probability that it is a king is
A. $\frac{1}{13}$
B. $\frac{1}{52}$
C. $\frac{1}{3}$
D. $\frac{1}{4}$

Answer: A

## - Watch Video Solution

11. A card is pulled from a deck of 52 cards, The probability of obtaining a club is
A. $\frac{1}{52}$
B. $\frac{1}{4}$
C. $\frac{1}{13}$
D. $\frac{1}{26}$

Answer: B

## - Watch Video Solution

12. In a lucky dip of 30 tokens, Gopi purchased two tokens. Then the probability of getting the first prize is
A. $\frac{1}{30}$
B. $\frac{2}{30}$
C. $\frac{3}{30}$
D. $\frac{2}{15}$

Answer: B

## D Watch Video Solution

13. IF a ball is drawn at random from a box containing 11 red balls, 6 white balls and 9
green balls then, the probability that the ball
is not green is

> A. $\frac{9}{26}$
> B. $\frac{17}{26}$
> C. $\frac{11}{26}$
> D. $\frac{6}{26}$

Answer: B
( Watch Video Solution
14. A box contains pencils and pens. The probability of picking out a pen at random of 0.65. Then the probability of not picking a pen is
A. 0.45
B. 0.55
C. 0.65
D. 0.35

## Answer: D

15. Which of the following are equally likely events?
A. Getting a head or tail is tossing a coin
B. In a throw of a die, getting prime or
composite number
C. Drawing a number card from 1-50, a
number divisible by 6 or 8 .

## D. Picking a heart or black card from a deck

 of playing cards.Answer: A

## - Watch Video Solution

16. In a simultaneous toss of two coins, probability of no tails is

> A. $\frac{1}{2}$
> B. $\frac{1}{3}$
C. $\frac{1}{4}$
D. $\frac{3}{4}$

## Answer: D

## - Watch Video Solution

17. In a simultaneous toss of two coins, the probability of atleast one head is
A. $\frac{1}{3}$
B. $\frac{2}{4}$
C. $\frac{3}{4}$
D. $\frac{1}{4}$

## Answer: C

## D Watch Video Solution

18. In a single thrown of two dice, the
probability of getting a total of 12 is
A. $\frac{1}{18}$
B. $\frac{1}{36}$
C. $\frac{1}{9}$
D. $\frac{1}{12}$

Answer: B

## - Watch Video Solution

19. In a single throw of two dice, the probability of getting a total of 3 or 5 is
A. $\frac{1}{3}$
B. $\frac{2}{3}$
C. $\frac{1}{6}$
D. $\frac{5}{6}$

## Answer: C

## D Watch Video Solution

20. In a single throw of two dice, the probability of getting a total of 11 is
A. $\frac{1}{9}$
B. $\frac{1}{18}$
C. $\frac{1}{12}$
D. $\frac{35}{36}$

Answer: B

- Watch Video Solution

21. In a single throw of two dice, the probability getting a doublet is
A. $\frac{5}{6}$
B. $\frac{3}{11}$
c. $\frac{5}{12}$
D. $\frac{1}{6}$

## Answer: D

## - Watch Video Solution

22. In a single throw of two dice, the probability of getting distinct numbers is
A. $\frac{5}{6}$
B. $\frac{3}{12}$
C. $\frac{5}{36}$
D. $\frac{4}{36}$

Answer: A

## D Watch Video Solution

23. In a single throw of two dice, the probability of getting even doublet is
A. $\frac{3}{13}$
B. $\frac{1}{12}$
C. $\frac{1}{15}$
D. $\frac{1}{18}$

Answer: B

- Watch Video Solution

24. When two dice are rolled, probability of getting odd doublet is
A. $\frac{1}{12}$
B. $\frac{1}{18}$
C. $\frac{1}{9}$
D. $\frac{1}{6}$

Answer: A

## - Watch Video Solution

25. Two dice are rolled, the probability of getting 6 as the product is
A. $\frac{1}{18}$
B. $\frac{1}{12}$
C. $\frac{1}{9}$
D. $\frac{1}{6}$

## Answer: C

## D Watch Video Solution

26. The set of all possible events is called..........
A. event
B. impossible
C. sample space

## Answer: C

## - Watch Video Solution

27. A die is thrown. Find the probability of getting: a number less than or equal to 6
A. base event
B. impossible event
C. element
D. sure event

## Answer: D

## D Watch Video Solution

28. When a coin is tossed, the probability of
getting a head is
A. $\frac{1}{2}$
B. 2
C. -1
D. $\frac{3}{2}$

Answer: A

## - Watch Video Solution

29. When a dice is rolled, the probability of getting a composite number is
A. $\frac{1}{4}$
B. $\frac{1}{2}$
C. $\frac{1}{3}$

## Answer: C

## D Watch Video Solution

30. From a deck of cards, a card is drawn at random, then the probability of getting a black a face card is.

$$
\begin{aligned}
& \text { A. } \frac{9}{2} \\
& \text { B. } \frac{1}{4}
\end{aligned}
$$

C. $\frac{3}{2}$
D. $\frac{3}{26}$

## Answer: D

## D Watch Video Solution

31. From a bag containing 6 red balls, 5 green balls and 3 blue balls, the probability of getting a green ball at random.........

$$
\text { A. } \frac{5}{14}
$$

B. $\frac{4}{5}$
C. $\frac{5}{4}$
D. None

## Answer: A

## D Watch Video Solution

32. There are 50 cards numbered from 1 to 50 .

A card is drawn at random, then the probability that the number on the card is divisible by 8 is
A. $\frac{25}{3}$
B. $\frac{3}{25}$
C. $\frac{19}{4}$
D. None

Answer: B

## D Watch Video Solution

33. The event which can't happen at all is
known as............event.
A. sure
B. possible
C. impossible
D. None

## Answer: C

## D Watch Video Solution

## 34. The probability of a certain event is

A. 9
B. 7
C. 0
D. 1

## Answer: D

## D Watch Video Solution

## 35. The probability of an impossible event is

A. 1
B. 0
C. 4
D. None

## Answer: B

## - Watch Video Solution

36. Probability of an event lies between ..........and..............
A. 0,1
B. 2,3
C. 7,1
D. 4,9

Answer: A

## D Watch Video Solution

## 37. $P(E)+P\left(E^{\prime}\right)=. . . . .$.

A. 0
B. 2
C. 1

## D. None

## Answer: C

## D Watch Video Solution

38. In a box, there are 28 marbles of which $x$ are green and the rest are white. If the probability of getting a green marble is $\frac{2}{7}$. Then number of green marbles=.......
A. 8
B. 9
C. 10
D. 13

## Answer: A

## - Watch Video Solution

39. In a box, there are 28 marbles of which $x$ are green and the rest are white. If the probability of getting a green marble is $\frac{2}{7}$. Number of white marbles in the problem=.
A. 12
B. 11
C. 16
D. 20

## Answer: D

## D Watch Video Solution

40. IF E is an event whose probability is $\frac{2}{5}$,
then the probability of not $E$ is...........
A. $\frac{1}{2}$
B. $\frac{5}{3}$
C. $\frac{3}{5}$
D. $\frac{1}{3}$

## Answer: C

## D Watch Video Solution

41. From a well shuffled pack of cards, a card is drawn at random, then the probability of getting a red jack is
A. $\frac{1}{3}$
B. $\frac{1}{26}$
C. $\frac{1}{52}$
D. $\frac{1}{31}$

Answer: B

- Watch Video Solution

42. From a well shuffled pack of cards, a card is drawn at random, then the probability of getting a red coloured card is
A. $\frac{1}{2}$
B. $\frac{1}{3}$
C. $\frac{1}{7}$
D. None

Answer: A

## D Watch Video Solution

43. IF an unbiased coin is tossed the probability of getting a tail is
A. $\frac{4}{3}$
B. $\frac{3}{4}$
C. $\frac{1}{3}$
D. $\frac{1}{2}$

## Answer: D

## D Watch Video Solution

44. IF two dice are rolled simultaneously then
the 'sum' with greatest possibility to happen
A. 71
B. 7
C. 3
D. None

Answer: B

## - Watch Video Solution

45. If two events have same chances to happen, then they are called.
A. equally likely
B. not likely
C. cards
D. None

Answer: A

- Watch Video Solution

46. If the occurrence of one event prevents the occurrence of another event then they are.
A. inclusive
B. dice
C. picking
D. mutually exclusive

## Answer: D

- Watch Video Solution

47. Probability of switching on a bulb is a dark room is 0.35 , then the probability of not switching the bulb is.
A. 65,1
B. 6.5
C. 0.65
D. None

## Answer: C

## D Watch Video Solution

48. The probability of raining a day is

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

B. $\frac{1}{2}$
C. $\frac{1}{4}$
D. None

Answer: B

D Watch Video Solution
49. IF one side is chosen at random from the
sides of a right triangle, then the probability
that it is hypotenuse is
A. 2
B. $\frac{1}{2}$
C. $\frac{1}{3}$
D. 3

## Answer: C

## - Watch Video Solution

50. When a dice is thrown, the probability of getting neither a prime nor composite number is
A. $\frac{1}{3}$
B. $\frac{1}{2}$
C. $\frac{1}{6}$
D. None

Answer: C

## D Watch Video Solution

51. When a coin is tossed the probability of getting a tail or head is.......
A. 0
B. $\frac{-1}{2}$
C. $\frac{1}{2}$
D. 1

Answer: C

## - Watch Video Solution

52. Getting a tail or head.
A. equally likely

## B. unlikely

## C. exclusive

D. None

Answer: A

- Watch Video Solution

53. Getting a prime (or) composite
A. mutually exclusive
B. likely
C. 0
D. None

Answer: A
( Watch Video Solution
54. Getting a red card (or) black card is........
A. mutually exclusive
B. more likely
C. less likely

## D. None

## Answer: A

## D Watch Video Solution

55. $P$ (sure events) $=. . . . . . . . . . . .$.
A. 1
B. 0
C. -1
D. 2

Answer: A

## - Watch Video Solution

56. P ( Impossible events)=............
A. 4
B. 3
C. -1
D. 0
57. The probability of a face card from red
cards is.
A. $\frac{3}{13}$
B. $\frac{13}{3}$
C. $\frac{2}{17}$

D. None

Answer: A
58. The probability of drawing a black king
from the deck is............

> A. $\frac{1}{14}$
> B. $\frac{1}{3}$
> C. $\frac{1}{2}$
> D. $\frac{1}{26}$

Answer: D

D Watch Video Solution
59. The probability of drawing a black card from the black cards is
A. 3
B. 2
C. 0
D. 1

## Answer: D

60. The probability of getting two tails when two coins are tossed is.

> A. $\frac{1}{4}$
> B. $\frac{1}{2}$
> C. $\frac{2}{3}$

D. None

Answer: A
( Watch Video Solution
61. There are.......... Cards in a pack of playing cards.
A. 19
B. 16
C. 52
D. 50

Answer: C

D Watch Video Solution
62. IF $\mathrm{P}(\mathrm{E})=0.05$, then $\mathrm{P}(\bar{E})=. . . . . .$.
A. 1.35
B. 0.95
C. 9.5
D. 1.5

Answer: B
63. $\mathrm{P}(\mathrm{G})=\frac{4}{17}, \mathrm{P}(\bar{G})=\ldots . . . . . .$.
A. $\frac{13}{17}$
B. $\frac{3}{17}$
C. $\frac{7}{17}$
D. $\frac{1}{17}$

Answer: A

D Watch Video Solution
64. $\mathrm{P}(\mathrm{N})+\mathrm{P}(\bar{N})=. . . . . . . . .$.
A. 0
B. 1
C. 3
D. 7

Answer: B

## - Watch Video Solution

65. A baby is born the probability that it is a boy(or) girl is
A. 1
B. $\frac{-1}{2}$
C. $\frac{1}{3}$
D. $\frac{1}{2}$

Answer: D

D Watch Video Solution
66. Fill in the blacks:
(i) The probability of an impossible event is
(ii) The probability of a sure event is
(iii) For any event $\mathrm{E}, \mathrm{P}(\mathrm{E})+\mathrm{P}($ not E$)=$.
(iv) The probability of a possible but not a sure event lies between .......... and
(v) The sum of probabilities of all the outcomes of an experiment is
A. 1
B. 2
C. 3
D. None

Answer: A

- Watch Video Solution

67. Identify true statement.
A. $0 \leq P(E) \leq 1$
B. $0<P(E)<2$
C. $9 \leq P(E)$

## D. None

Answer: A

## D Watch Video Solution

68. There are...............face cards.
A. 1
B. 2
C. 4
D. None

## Answer: D

## - Watch Video Solution

69. Probability can never be............
A. 0
B. 1
C. 0.5
D. -2
70. A dice is tossed once then the probability of getting an even number or a multiple of 3
is.

> A. $\frac{1}{2}$
> B. $\frac{2}{3}$
> C. $\frac{1}{4}$
> D. None
71. The probability that a leap year has 53
sundays is
A. $\frac{2}{7}$
B. $\frac{3}{7}$
C. $\frac{1}{7}$
D. $\frac{21}{17}$

Answer: A
72. Two dice are thrown once together. What is the probability of getting a doublet?
A. $\frac{1}{4}$
B. $\frac{1}{2}$
C. $\frac{1}{6}$
D. None

Answer: C

- Watch Video Solution

73. $\mathrm{P}(\mathrm{E})-1+\mathrm{P}(\bar{E})=. . . . . . . .$.
A. -2
B. 0
C. 9
D. 2

Answer: B

- Watch Video Solution

74. $\mathrm{P}(\mathrm{E})=0.455$ then $\mathrm{P}(\bar{E})=. . . . . . . . . . .$.
A. 0.545
B. 0.145
C. 0.345
D. None

Answer: A

- Watch Video Solution

75. $P\left(A^{1}\right)=\ldots . . . . . . .$.
A. $\phi$
B. A
C. 1-P(A)
D. None

Answer: C

- Watch Video Solution

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

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

$$
\begin{aligned}
& \text { A. } \frac{4}{13} \\
& \text { B. } \frac{2}{13} \\
& \text { C. } \frac{1}{13} \\
& \text { D. } \frac{5}{13}
\end{aligned}
$$

## Answer: A

3. IF $A, B, C$ are three mutually exclusive events of a trial such that $P(A)=2 P(B)=3 P(C)$ then
$P(A)=. . . . .$.
A. $\frac{11}{6}$
B. $\frac{5}{11}$
C. $\frac{6}{11}$
D. 1
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

$$
\begin{aligned}
& \text { A. } \frac{47}{66} \\
& \text { B. } \frac{10}{33} \\
& \text { C. } \frac{5}{22} \\
& \text { D. } \frac{2}{11}
\end{aligned}
$$

## Answer: A

## 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
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

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. $\frac{57}{60}$
8. IF $\mathrm{P}(A \cup B)=0.65, \quad \mathrm{P}(\mathrm{A} \cap \mathrm{B})=0.15$, then $P(A)+P(B)=. . . . . . .$.
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......

$$
\begin{aligned}
& \text { A. } \frac{98}{25} \\
& \text { B. } \frac{1}{2} \\
& \text { C. } \frac{97}{25} \\
& \text { D. } \frac{25}{98}
\end{aligned}
$$

10. The probability of getting atleast two
heads, when tossing a coin three times is
A. $\frac{1}{2}$
B. 2
C. $\frac{1}{4}$
D. 1

Answer: A
11. IF $P(A)=0.4, P(A \cup B)=0.7$ and $A, B$ are independent, then $P(B)=$........
A. 1
B. -1
C. $\frac{1}{2}$
D. $\frac{1}{4}$

Answer: C
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

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
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
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

## - Watch Video Solution

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. $\frac{1}{4}$

## Answer: A

## D Watch Video Solution

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

## - Watch Video Solution

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

## D Watch Video Solution

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

## - Watch Video Solution

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

1
A. $\frac{1}{4}$
B. $\frac{1}{2}$
C. $\frac{1}{3}$
D. None

Answer: A

## - Watch Video Solution

1. Outcomes of which of the following experiments are equally likely ?(1)Getting a digit $1,2,3,4,5$ or 6 when a dice is rolled.
(2)Selecting a different colour ball from a bag of 5 red balls, 4 blue balls and 1 blackball.Winning in a game of carrom.(3)

Units place of a two digit number selected may be $0,1,2,3,4,5,6,7,8$ or 9 .(4) Selecting a different colour ball from a bag of 10 red balls,

10 blue balls and 10 black balls.(5) Raining on a particular day of July.Are the outcomes of every experiment equally likely?

## - Watch Video Solution

2. Give examples of 5 experiments that have equally likely outcomes and five more examples that do not have equally likely outcomes.

## - Watch Video Solution

3. Think of 5 situations with equally likely events and find the sample space.

## Watch Video Solution

4. Is getting a head complementary to getting a tail ? Give reasons.

## - Watch Video Solution

5. In case of a die is getting a 1 complementary to events getting $2,3,4,5,6$ ? Give reasons for your answer.
6. Write of five new pair of events that are complementary.

## D Watch Video Solution

7. A child has a dice whose six faces show the letters $A, B, C, D, E$ and $F$. The dice is thrown once.

What is the probability of getting $D$ ?

D Watch Video Solution
8. Which of the following cannot be the probability of an event?
2.3

D Watch Video Solution
9. Which of the following cannot be the probability of an event?
$-1.5$
10. Which of the following cannot be the probability of an event? : $15 \%$

## D Watch Video Solution

11. Which of the following cannot be the probability of an event?
0.7
(D) Watch Video Solution
12. You have a single deck of well shuffled cards. Then,

What is the probability that the card drawn will be a queen?

## - Watch Video Solution

13. What is the probability that it is face card?

- Watch Video Solution

14. What is the probability that it is a spade?

## - Watch Video Solution

15. What is the probability that is the face card of spades?

## - Watch Video Solution

16. What is the probability it is not a face card?
17. Why is tossing a coin considered to be a
fair way of deciding which term should get the ball at the beginning of any game?

## D Watch Video Solution

18. Can $\frac{7}{2}$ be the probability of an event?

Explain.
19. Which of the following arguments are correct and which are not correct? Give reasons. If two coins are tossed simultaneously, there are three possible outcomes-tow heads, two tails or one of each.

Therefore, for each of these outcomes, the probability is $\frac{1}{3}$.

## D Watch Video Solution

20. Which of the following arguments are correct and which are not correct? Give
reasons. If a dice is thrown, there are two possible outcomes an odd number or an even number. Therefore, the probability of getting an odd number is $\frac{1}{2}$.

## D Watch Video Solution

21. Find the probability of getting a head when
a coin is tossed once. Also find the probability of getting a tail.

## D <br> Watch Video Solution

22. A bag contains a red ball, a blue ball and an
yellow ball, all the balls being of the same size
. Manasa takes out a ball from the bag without
looking into it. What is the probability that she takes a (i) yellow ball? (ii) red ball? (iii) blue ball?

## - Watch Video Solution

23. Suppose we throw a dice once. What is the probability of getting a number greater than $4 ?$
24. Suppose we throw a dice once. What is the probability of getting a number less than or equal to 4 ?

## - Watch Video Solution

25. One card is drawn from a well-shuffled deck of 52 cards. Calculate the probability that the card will not be an ace.

## Watch Video Solution

26. Sangeeta and Reshma , play a tennis match. It is known that the probability of sangeeta winning the match is 0.62 . What is the probability of Reshma winning the match?

## - Watch Video Solution

27. Sarada and Hamida are friends. What is the probability that both will have different birthdays?

## - Watch Video Solution

28. There are 40 students in Class $X$ of a school of whom 25 are girls and 15 are boys.

The class teacher has to select one student as
a class representative. She writes the name of each student on a separate cards, the cards
being identical. Then she puts cards in a box and stirs them thoroughly. She then draws one card from the box.What is the probability that the name written on the card is the name of a girl
29. Complete the following statements:

Probability of an event E+Probability of the event 'not E '= ______.

- Watch Video Solution

30. Complete the following statements:

The probability of an event that cannot
happen is

Such as event is called an

## D Watch Video Solution

31. Complete the following statements:

The probability of an event that is certain to
happen is __ such an event is called

D Watch Video Solution
32. Complete the following statements:

The sum of the probabilities of all the elementary events of an experiments is $\qquad$ .

## - Watch Video Solution

33. Complete the following statements:

The probability of an event is greater than or equal to _____ and less than or equal to

## D Watch Video Solution

34. Which of the following experiments have equally likely outcomes? Explain.

A driver attempts to start a car. The car starts or does not start.

## D Watch Video Solution

35. Which of the following experiments have equally likely outcomes? Explain.

A player attempts to shoot a basket-ball. She/HE shoots or misses the shot.
36. Which of the following experiments have equally likely outcomes? Explain.

A trial is made to answer a true -false question. The answer is right or wrong.

## - Watch Video Solution

37. Which of the following experiments have equally likely outcomes? Explain.

A baby is born. IT is a boy or a girl.

## Watch Video Solution

38. IF $P(E)=.05$, what is the probability of 'not E'?

## D Watch Video Solution

39. A bag contains lemon flavoured candies only. Malini takes out one candy without looking into the bag what is the probability that she takes out
an orange flavoured candy?
40. Rahim removes all the hearts from the cards. What is the probability of picking out an ace from the remaining pack.

## - Watch Video Solution

41. Rahim removes all the hearts from the cards. What is the probability of Picking out the ace of hearts.

## Watch Video Solution

42. Rahim removes all the hearts from the cards. What is the probability of picking out a card that is not a heart.

## - Watch Video Solution

43. Rahim removes all the hearts from the cards. What is the probability of

Picking out the ace of hearts.
44. It is given that in a group of 3 students, the probability of 2 students not having the same birthday is 0.992.What is the probability that the 2 students have the same birthday?

## D Watch Video Solution

45. A die is thrown once. Find the probability
of getting a prime number,
46. A die is thrown once. Find the probability of getting a number lying between 2 and 6 .

## - Watch Video Solution

47. A die is thrown once. Find the probability of getting an odd number.
48. What is the probability of drawing out a red king from a deck of cards?

## D Watch Video Solution

49. Make 5 more problems of this using dice, cards or birthdays and discuss with friends and teacher about their solutions.

- Watch Video Solution

50. 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 white?

## - Watch Video Solution

51. Harpreet tosses two different coins simultaneously (say, one is of Rs1 and other of Rs2). What is the probability that she gets at least one head?
52. In a musical chair game, the person playing the music has been advised to stop playing the music at any time within 2 minutes after she starts playing . What is the probability that the music will stop within the first halfminute starting?

- Watch Video Solution

53. A missing helicopter is reported to have crashed somewhere in the rectangular region as shown in the figure. What is the probability that it crashed inside the lake shown in the figure?

## D Watch Video Solution

54. A cartoon consists of 100 shirts of which 88 are good, 8 have minor defects and 4 have
major defects. Jhony, a trader, will only accept
the shirts which are good, but Sujatha, another trader, will only reject the shirts will have major defects. One shirt is selected at random from the carton. What is the probability that it is acceptable to Jhony?

## D Watch Video Solution

55. A cartoon consists of 100 shirts of which 88
are good, 8 have minor defects and 4 have
major defects. Jhony, a trader, will only accept
the shirts which are good, but Sujatha, another trader, will only reject the shirts will have major defects. One shirt is selected at random from the carton. What is the probability that it is acceptable to Sujatha?

## D Watch Video Solution

56. Two dice, one red and one white, are thrown at the same time. Write down all the possible outcomes. What is the probability
that the sum of the two numbers appearing on the top of the dice is 8 ?

## D Watch Video Solution

57. 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 not red?
58. A box contains 5 red marbles, 8 white marbles and 4 green marbles. One marble is taken out of the box at random. What is the probability that the marble taken out will be red?

## D Watch Video Solution

59. A kiddy bank contains hundred 50p coins, fifity Rs1 coins, twenty Rs2 coins and ten Rs5
coins. IF it is equally likely that one of the
coins will fall out when the bank is turned upside down, what is the probability that the coin will be a 50p coins?

## D Watch Video Solution

60. A kiddy bank contains hundred 50p coins,
fifty ₹ 1 coins, twenty ₹ 2 coins and ten ₹ 5 coins.

If it is equally likely that one of the coins will fall out when the bank is turned upside down,
what is the probability that the coin (ii) will not be a ₹ 5 coin?
61. Gopal buys a fish from a shop for his aquarium. The shopkeeper takes out one fish at random from a tank containing 5 male fish and 8 female fish (See figure). What is the probability that the fish taken out is a male fish?

- Watch Video Solution

62. A game of chance consists of spinning an arrow which comes to rest pointing at one of the numbers $1,2,3,4,5,6,7,8$ (See figure), 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 ?

- Watch Video Solution

63. A game of chance consists of spinning an arrow which comes to rest pointing at one of the numbers $1,2,3,4,5,6,7,8$ (See figure), 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 ?

- Watch Video Solution

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- Watch Video Solution

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(iv) a number less than 9 ?

- Watch Video Solution

66. One card is drawn from a well-shuffled dock
of 52 cards. Find the probability of getting a king of red colour?

## - Watch Video Solution

67. One card is drawn from a well-shuffled dock
of 52 cards. Find the probability of getting a
face card?
68. One card is drawn from a well-shuffled dock
of 52 cards. Find the probability of getting a red face card?

## - Watch Video Solution

69. One card is drawn from a well-shuffled dock of 52 cards. Find the probability of getting the jack of hearts?
70. One card is drawn from a well-shuffled dock of 52 cards. Find the probability of getting a spade?

## D Watch Video Solution

71. One card is drawn from a well-shuffled dock of 52 cards. Find the probability of getting the queen of diamonds?

- Watch Video Solution

72. Five cards the ten, jack queen, king and ace of diamond, 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?

## D Watch Video Solution

73. Five cards -the ten, jack queen, king and ace of diamond, are well shuffled with their
face downwards. One card is then picked up at random.

IF the queen is drawn and put aside, what is the probability that the second card picked is (a) a ace? (b) a queen?

## D Watch Video Solution

74. 12 defective pens are accidentally mixed with 132 good ones. IT is not possible to just
look at a 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 a good one.

## D Watch Video Solution

75. A lot of 20 bulbs contain 4 defective ones.

One bulb is drawn at random from the lot.

What is the probability that this bulb is defective? Suppose the bulb is drawn is previous case is not defective and is not replaced. Now one bulb is drawn at random
from the rest. What is the probability that this bulb is not defective?

## D Watch Video Solution

76. 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 a two digit number?
77. 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 a perfect square number.

## D Watch Video Solution

78. 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 a number divisible by 5 .
79. Suppose you drop a die at random on the rectangular region shown in figure. What is the probability that it will land inside the circle with diameter 1 m ?

D Watch Video Solution
80. A lot consists of 144 ball pens of which 20 are defective and the others are good. The
shopkeeper drawn one pen at random and gives it to Sudha. What is the probability that She will not buy it?

## D Watch Video Solution

81. Two dice are rolled simultaneously and counts are added

A student argues that there are 11 possible outcomes 2,3,4,5,6,7,8,9,10,11 and 12. Therefore, each of them has a probabilty $\frac{1}{11}$. Do you agree with this argument? Justify your answer.

## Watch Video Solution

82. A game consists of tossing a one rupee coin 3 times and noting its outcome each time. Hanif wins if all the tosses give the same result i.e, three heads or three tails, and loses other-wise. Calculate the probability that Hanif will lose the game.

D Watch Video Solution
83. A dice is thrown twice. What is the probability that (i) 5 will not come up either time? (ii) 5 will come up atleast once? [Hint:

Throwing a dice twice and throwing two dice simultaneously are treated as the same experiment].

## D Watch Video Solution

84. Two customers Shyam and Ekta are visiting
a particular shop in the same week (Tuesday to

Saturday). Each is equally likely to visit the shop on the same day?

## D Watch Video Solution

85. A bag contains 5 red balls and some blue balls, If the probability of drawing a blue ball is
double that of a red ball, Find the number of blue balls in the bag.
86. A box contains 12 balls out of which $x$ are
black, IF one ball is drawn at random from the
box, what is the probability that it will be a black ball? If 6 more black balls are put in the box, the probability of drawing a black ball is now double of what it was before Find x .

## - Watch Video Solution

87. A jar contains 24 marbles, some are green
and others are blue. IF a marble is drawn at
random from the jar, the probability that it is green is $2 / 3$. Find the number of blue marbles in the jar.

## D Watch Video Solution

88. When die is rolled once unbiased what is
the probability of getting a multiple of 3 out of possible outcomes?

- Watch Video Solution

89. The probability of an event is always in between 0 and 1 . Why?

D Watch Video Solution
90. Find the probability of getting the same number on the both the dice when two dice are thrown.

D Watch Video Solution
91. Find the probability of getting a prime number, when a card drawn at random from
the numbered cards from 1 to 25 .

## D Watch Video Solution

92. From the first 50 natural numbers, find the
probability of randomly selected number is a multiple of 3 .

## 93. When a dice is rolled, the probability of

 getting a composite number is.
## - Watch Video Solution

94. What is the probability of getting exactly
two heads, when three coins tossed
simultaneously?

- Watch Video Solution

95. From English alphabet if a letter is choosen
at random, then find the probability that the letter is a consonant.

## - Watch Video Solution

96. Which of the following are equally likely events?

- Watch Video Solution

97. When a die is rolled, the probability of getting an odd prime number is

## - Watch Video Solution

98. There are 12 red, 18 blue and 6 white balls in
a box, when balls is drawn at random from the box, what is the probability of not getting a red ball?
99. When a card is drawn from a well shuffled deck of 52 cards, then find the probability of

NOT getting a red faced card.

## - Watch Video Solution

100. There are 5 red balls, 4 green balls and 6
yellow balls in a box. IF a ball is selected at
random, what is the probability of not getting
a yellow ball?

- Watch Video Solution

101. One card is selected from a well shuffled deck of 52 cards. Find the probability of getting a red card with prime number.

## D Watch Video Solution

102. From the following data. Find the probability of selecting ' $B$ ' blood group student.
103. What is the probability of a number picked from first twenty natural numbers is even composite number?

## - Watch Video Solution

104. A bag contains balls which are numbered
from 1 to 50. A ball Is drawn at random from
the bag, the probability that it bears a two digit number multiple of 7 .
105. A box contains 4 red balls, 5 green balls and $P$ white balls. If the probability of randomly picked ball from the box to be a red ball is $\frac{1}{3}$, then find the number of white balls.

## D Watch Video Solution

106. A bag contains 7 red, 5 white and 6 black balls. A ball is drawn from the bag at random,
find the probability that the ball drawn is not black.

## D Watch Video Solution

107. There are 100 flash cards labelled from 1
to 100 in a bag. When a card is drawn from the
bag at random, what is the probability of getting.
a card with prime number from possible outcomes?

D Watch Video Solution
108. A shopkeeper has 100 memory cards in a box. Among then, 15 memory cards are defective. When a person came to the shop to
buy a memory card, the shopkeeper drew a memory card at random from the box. Then, what is the probability that this memory card is defective?

## D Watch Video Solution

109. A bag contains 5 red balls and some blue balls, If the probability of drawing a blue ball is double that of a red ball, Find the number of blue balls in the bag.

## - Watch Video Solution

110. Two dice are rolled at same time and the
sum of the numbers appearing on them is noted. Find the probability of getting each sum from 3 to 5 separately.
111. A bag contains some square cards. A prime number between 1 and 100 has been written on each card. Find the probability of getting a card that the sum of the digits of prime number written on it, is 8 .

## D Watch Video Solution

112. From the deck of 52 cards, if a card is
randomly chosen , find the probability of
getting a card with a prime number on it?

## - Watch Video Solution

113. If two dice are thrown at the same time,
find the probability of getting sum of the dots on top is prime.

## ( Watch Video Solution

114. From a pack of 52 playing cards, Jacks,

Queens, Kings and Aces of red colour are
removed. From the remaining, a card is drawn at random. Find the probability that the card drawn is (i) a black queen,(iii) a red card.

## D Watch Video Solution

115. Suppose you drop a die at random on the rectangular region shown in figure. What is the probability that it will land inside the circle with diameter 1 m ?

## D Watch Video Solution

116. In a class 32 students out of 60 take tea.

So find the probability of choosing randomly a student who doesn't take tea.

## - Watch Video Solution

117. IF $P(E)=3 / 4$ what is the probability of " not E"?
118. There are 3 red and 4 white balls in a bag.

If a ball is taken randomly then calculate the probability of it to be a red ball.

## D Watch Video Solution

119. Find the probability of existing 53 sundays
in a common year.

D Watch Video Solution
120. In a 50 marks examination,there is $80 \%$ possibility to pass in that exam. So find the probability for pass in exam.

## D Watch Video Solution

121. A bag contains 5 red and 8 white balls. If a
ball is drawn a random from the bag. What is
the probability that it will be
(i) white ball (ii) not to be white ball.
122. In a skinner numbered from 1-20, find the probability of getting of following prime number.

## - Watch Video Solution

123. When a six face die is rolled find the probability of getting the following getting less than five.
124. IF $\mathrm{P}(\mathrm{E})=0.26$, then $\mathrm{P}(\bar{E})=. . . . . . . .$.
A. 0.18
B. 0.28
C. 0.38

$$
\text { D. } P(E)=P(\bar{E})
$$

## Answer:

125. IF a die is rolled, then the probability of getting a prime number is
A. 1
B. $\frac{1}{2}$
C. $\frac{1}{3}$
D. $\frac{1}{6}$

Answer:

D Watch Video Solution
126. Let $\mathrm{E}, \bar{E}$, be the complimentary events, in
a random experiment, then which of the following is true?
A. $P(E)+P(\bar{E})=2$
B. $P(E)+P(\bar{E})=3$
C. $P(\bar{E})+P(E)=1$

$$
\text { D. } P(E)+P(\bar{E})=4
$$

## Answer:

127. Which one of the following cannot be the probability of an event?

> A. $\frac{2}{3}$
> B. $\frac{4}{5}$
C. 0.7
D. 44291

Answer:
( Watch Video Solution
128. On random selection, the probability of getting a composite number among the numbers from 51 to 100.

> A. $\frac{4}{5}$
> B. $\frac{1}{5}$
> C. $\frac{3}{5}$
> D. $\frac{2}{5}$

Answer:

D Watch Video Solution
129. Let E ,and $\bar{E}$, be the complimentary events.

IF $\mathrm{P}(\bar{E})=0.65 \mathrm{~m}$ then $\mathrm{P}(\mathrm{E})=. . . . . .$.
A. 0.4
B. 0.45
C. 0.35
D. 0.3

Answer:

D Watch Video Solution
130. At what value of ' $x$ ', $\frac{5}{x}$ may possible probability of an event?
A. 2
B. 1
C. 4
D. 6

Answer:

D Watch Video Solution
131. IF $P(E)$ is the probability of an event $E$,
then..........

$$
\begin{aligned}
& \text { A. } 0<P(E)<1 \\
& \text { B. } 0 \leq P(E)<1 \\
& \text { C. } 0 \leq P(E) \leq 1 \\
& \text { D. } 0<P(E)<=1
\end{aligned}
$$

Answer:
132. The probability of getting right answer to
a question is 0.68 , the probability of getting a wrong answer is
A. 0.32
B. 0.32
C. 32
D. A and B

## Answer:

133. A letter is chosen from the word
"BAHUBALI", the probability that it was not a
vowel is
A. $\frac{1}{2}$
B. $\frac{3}{2}$
C. $\frac{4}{3}$
D. $\frac{3}{4}$

Answer:

D Watch Video Solution
134. The probability is sure event is
A. 0
B. $\left(\frac{1}{2}\right)$
C. 1
D. undefined

Answer:

D Watch Video Solution
135. A die is thrown once. Find the probability of getting a prime number,

$$
\begin{aligned}
& \text { A. } \frac{1}{3} \\
& \text { B. } \frac{1}{2} \\
& \text { C. } \frac{2}{3} \\
& \text { D. } \frac{1}{6}
\end{aligned}
$$

Answer:
(D) Watch Video Solution
136. From a set of single digit natural numbers, if a number is chosen at random then the probability that the number chosen is a multiple of 2 , is

$$
\begin{aligned}
& \text { A. } \frac{4}{9} \\
& \text { B. } \frac{1}{3} \\
& \text { C. } \frac{9}{4} \\
& \text { D. } \frac{2}{4}
\end{aligned}
$$

## Answer:

137. IF $P(E)$ is the probability of an event $E$, then.........
A. $P(E) \geq 1$
B. $P(E) \leq 0$
C. $0 \leq P(E) \leq 1$
D. $P(E) \leq 1$

Answer:

- Watch Video Solution

138. Two fair dice are rolled and the face values
are added. The probability of getting an odd
number greater than 8 is

> A. $\frac{2}{9}$
> B. $\frac{1}{6}$
> C. $\frac{1}{4}$
> D. $\frac{1}{9}$

Answer:

D Watch Video Solution
139. A jar contains 3 mangoes and x guavas.

Two fruits are pulled from the jar without replacement. An expression that represents the probability one fruit is mango and the next fruit is guava is.

$$
\begin{aligned}
& \text { A. }\left(\frac{3}{x+3}\right)\left(\frac{x-1}{x+2}\right) \\
& \text { B. }\left(\frac{3}{x+3}\right)\left(\frac{x}{x+2}\right) \\
& \text { C. }\left(\frac{3}{x+3}\right)\left(\frac{x-1}{x-2}\right) \\
& \text { D. }\left(\frac{3 \times 2}{x+3}(x+2)\right)
\end{aligned}
$$

140. A card is pulled from a deck of 52 cards,

The probability of obtaining a club is

$$
\begin{aligned}
& \text { A. } \frac{1}{3} \\
& \text { B. } \frac{13}{26} \\
& \text { C. } \frac{2}{11} \\
& \text { D. } \frac{1}{4}
\end{aligned}
$$

Answer:
141. Three different greetings cards and their corresponding covers are randomly strewn about on a table. IF Sita puts the greetings cards into the covers at random, the probability of correctly matching of all the greeting cards and covers is
A. $\frac{5}{6}$
B. $\frac{2}{3}$
C. $\frac{1}{6}$
D. $\frac{1}{9}$

## Answer:

## D Watch Video Solution

142. When a coin is tossed, the probability of
getting a head is
A. $\frac{1}{2}$
B. $\frac{1}{4}$
C. $\frac{1}{3}$
D. $\frac{1}{6}$

## Answer:

## D Watch Video Solution

143. IF a die is rolled, then the probability of
getting an even number is.
A. $\frac{1}{6}$
B. $\frac{1}{3}$
C. $\frac{1}{2}$
D. $\frac{2}{5}$

## Answer:

## D Watch Video Solution

144. IF two dice ar rolled at a time then the probability that the two faces show different numbers is
A. $\frac{1}{6}$
B. $\frac{35}{36}$
C. $\frac{5}{6}$
D. $\frac{1}{36}$

## Answer:

## - Watch Video Solution

145. If two dice are thrown simultaneously, the probability of showing the same numbers on their faces
A. $\frac{1}{6}$
B. $\frac{1}{4}$
C. $\frac{1}{12}$
D. $\frac{1}{3}$

## Answer:

## D Watch Video Solution

146. The probability of getting a number less
than 5 when a die is rolled is

$$
\text { A. } \frac{4}{5}
$$

B. $\frac{2}{3}$
C. $\frac{3}{6}$
D. $\frac{1}{6}$

## Answer:

## D Watch Video Solution

147. IF a card is drawn from a pack the probability that it is a king is
A. $\frac{1}{13}$
B. $\frac{1}{52}$
C. $\frac{1}{3}$
D. $\frac{1}{4}$

## Answer:

## D Watch Video Solution

148. A card is pulled from a deck of 52 cards,

The probability of obtaining a club is
A. $\frac{1}{52}$
B. $\frac{1}{4}$
C. $\frac{1}{13}$
D. $\frac{1}{26}$

## Answer:

## D Watch Video Solution

149. In a lucky dip of 30 tokens, Gopi purchased two tokens. Then the probability of getting the first prize is
A. $\frac{1}{30}$
B. $\frac{2}{30}$
C. $\frac{3}{30}$
D. $\frac{2}{15}$

Answer:

D Watch Video Solution
150. IF a ball is drawn at random from a box containing 11 red balls, 6 white balls and 9
green balls then, the probability that the ball
is not green is

> A. $\frac{9}{26}$
> B. $\frac{17}{26}$
> C. $\frac{11}{26}$
> D. $\frac{6}{26}$

Answer:
( Watch Video Solution
151. A box contains pencils and pens. The probability of picking out a pen at random of
0.65. Then the probability of not picking a pen is
A. 0.45
B. 0.55
C. 0.65
D. 0.35

Answer:
152. Which of the following are equally likely events?
A. A getting a Head or Tail in tossing a coin.
B. In a throw if a die, getting prime or
composite number.
C. Drawing a number card from 1-50, a number divisible by 6 or 8 .

## D. Piking a heart or black card from a deck

 of playing cards.
## Answer:

## D Watch Video Solution

153. In a simultaneous toss of two coins,
probability of no tails is
A. $\frac{1}{2}$
B. $\frac{1}{3}$
C. $\frac{1}{4}$
D. $\frac{3}{4}$

## Answer:

## D Watch Video Solution

154. In a simultaneous toss of two coins, the probability of atleast one head is
A. $\frac{1}{3}$
B. $\frac{2}{4}$
C. $\frac{3}{4}$
D. $\frac{1}{4}$

## Answer:

## D Watch Video Solution

155. In a single thrown of two dice, the probability of getting a total of 12 is
A. $\frac{1}{18}$
B. $\frac{1}{36}$
C. $\frac{1}{9}$
D. $\frac{1}{12}$

## Answer:

## D Watch Video Solution

156. In a single throw of two dice, the probability of getting a total of 3 or 5 is
A. $\frac{1}{3}$
B. $\frac{2}{3}$
C. $\frac{1}{6}$
D. $\frac{5}{6}$

## Answer:

## D Watch Video Solution

157. In a single throw of two dice, the
probability of getting a total of 11 is
A. $\frac{1}{9}$
B. $\frac{1}{18}$
C. $\frac{1}{12}$
D. $\frac{35}{36}$

## Answer:

## D Watch Video Solution

158. In a single throw of two dice, the probability getting a doublet is
A. $\frac{5}{6}$
B. $\frac{3}{11}$
C. $\frac{5}{12}$
D. $\frac{1}{6}$

## Answer:

## - Watch Video Solution

159. In a single throw of two dice, the probability of getting distinct numbers is
A. $\frac{5}{6}$
B. $\frac{3}{12}$
C. $\frac{5}{36}$
D. $\frac{4}{36}$

## Answer:

## D Watch Video Solution

160. In a single throw of two dice, the
probability of getting even doublet is
A. $\frac{3}{13}$
B. $\frac{1}{12}$
C. $\frac{1}{15}$
D. $\frac{1}{18}$

## Answer:

## D Watch Video Solution

161. When two dice are rolled, probability of getting odd doublet is
A. $\frac{1}{12}$
B. $\frac{1}{18}$
C. $\frac{1}{9}$
D. $\frac{1}{6}$

## Answer:

## D Watch Video Solution

162. Two dice are rolled, the probability of getting 6 as the product is
A. $\frac{1}{18}$
B. $\frac{1}{12}$
C. $\frac{1}{9}$
D. $\frac{1}{6}$

## Answer:

## D Watch Video Solution

163. The set of all possible events is called..........
A. event
B. impossible
C. Sample space

## Answer:

## D Watch Video Solution

164. The "event" of getting a number less than or equal to 6 when a dice is thrown
A. base event
B. possible event
C. Element

## D. Sure event

## Answer:

## D Watch Video Solution

165. When a coin is tossed, the probability of
getting a head is
A. $\frac{1}{2}$
B. 2
C. -1
D. $\frac{3}{2}$

## Answer:

## - Watch Video Solution

166. When a dice is rolled, the probability of
getting a composite number is
A. $\frac{1}{4}$
B. $\frac{1}{2}$
C. $\frac{1}{3}$

## D. None

## Answer:

## D Watch Video Solution

167. From a deck of cards, a card is drawn at
random, then the probability of getting a
black a face card is.

$$
\begin{aligned}
& \text { A. } \frac{9}{2} \\
& \text { B. } \frac{1}{4}
\end{aligned}
$$

C. $\frac{3}{2}$
D. $\frac{2}{26}$

## Answer:

## D Watch Video Solution

168. From a bag containing 6 red balls, 5 green
balls and 3 blue balls, the probability of getting a green ball at random.........

$$
\text { A. } \frac{5}{14}
$$

B. $\frac{4}{5}$
C. $\frac{5}{4}$
D. None

## Answer:

## D Watch Video Solution

169. There are 50 cards numbered from 1 to 50 .

A card is drawn at random, then the probability that the number on the card is divisible by 8 is
A. $\frac{25}{3}$
B. $\frac{3}{25}$
C. $\frac{19}{4}$
D. None

Answer:

D Watch Video Solution
170. The event which can't happen at all is known as............event.
A. Sure
B. Possible
C. Impossible
D. None

Answer:

D Watch Video Solution
171. The probability of an event is.
A. 9
B. 7
C. 0
D. 1

## Answer:

## - Watch Video Solution

172. The probability of an impossible event is
A. 1
B. 0
C. 4
D. None

## Answer:

## D Watch Video Solution

173. Probability of an event lies between ..........and..............
A. 0,1
B. 2,3
C. 7,1
D. 4,9

## Answer:

## - Watch Video Solution

174. $P(E)+P(E)=\ldots . .$.
A. 0
B. 2
C. 1

## Answer:

## D Watch Video Solution

175. In a box, there are 28 marbles of which $x$ are green and the rest are white. If the probability of getting a green marble is $\frac{2}{7}$. Then number of green marbles=.......
A. 8
B. 9
C. 10
D. 13

## Answer:

## - Watch Video Solution

176. In the above problem $a_{5}=\ldots$
A. 12
B. 11
C. 16
D. 20

## Answer:

## D Watch Video Solution

177. IF E is an event whose probability is $\frac{2}{5}$,
then the probability of not $E$ is.
A. $\frac{1}{2}$
B. $\frac{5}{3}$
C. $\frac{3}{5}$
D. $\frac{1}{3}$

## Answer:

## D Watch Video Solution

178. From a well shuffled pack of cards, a card
is drawn at random, then the probability of getting a red jack is.
A. $\frac{1}{3}$
B. $\frac{1}{26}$
C. $\frac{1}{52}$
D. $\frac{1}{31}$

## Answer:

## D Watch Video Solution

179. From a well shuffled pack of cards, a card
is drawn at random, then the probability of getting a red coloured card is
A. $\frac{1}{2}$
B. $\frac{1}{3}$
C. $\frac{1}{7}$
D. None

Answer:

## D Watch Video Solution

180. When a coin is tossed, the probability of getting a head is.
A. $\frac{4}{3}$
B. $\frac{3}{4}$
C. $\frac{1}{3}$
D. $\frac{1}{2}$

## Answer:

## D Watch Video Solution

181. IF two dice are rolled simultaneously then
the 'sum' with greatest possibility to happen
A. 71
B. 7
C. 3
D. None

## Answer:

## D Watch Video Solution

182. If two events have same chances to happen, then they are called.
A. equally likely
B. not likely
C. cards
D. None

## Answer:

D Watch Video Solution
183. If the occurrence of one event prevents
the occurrence of another event then they are..........
A. inclusive
B. dice
C. piking
D. mutually exclusive

## Answer:

## D Watch Video Solution

184. Probability of switching on a bulb is a dark
room is 0.35 , then the probability of not switching the bulb is.
A. 65.1
B. 6.5
C. 0.65
D. None

Answer:

## D Watch Video Solution

185. The probability of raining a day is

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

B. $\frac{1}{2}$
C. $\frac{1}{4}$
D. None

## Answer:

## D Watch Video Solution

186. IF one side is chosen at random from the
sides of a right triangle, then the probability
that it is hypotenuse is
A. 2
B. $\frac{1}{2}$
C. 3
D. $\frac{1}{3}$

## Answer:

## D Watch Video Solution

187. When a dice is thrown, the probability of getting neither a prime nor composite number is
A. $\frac{1}{3}$
B. $\frac{1}{2}$
C. $\frac{1}{6}$
D. none

Answer:

D Watch Video Solution
188. When a coin is tossed the probability of getting a tail or head is.
A. 0
B. $-\frac{1}{2}$
C. $\frac{1}{2}$
D. 1

## Answer:

## - Watch Video Solution

189. Getting a tail or head
A. equally likely

## B. unlikely

## C. exclusive

D. None

## Answer:

## - Watch Video Solution

190. Getting a prime (or) composite
A. mutually exclusive
B. Likely
C. 0
D. None

## Answer:

## D Watch Video Solution

191. Getting a red card (or) black card is........
A. mutually exclusive
B. More likely
C. less likely

## D. None

## Answer:

## D Watch Video Solution

192. $P$ (sure events)=.............
A. 1
B. 0
C. -1
D. 2

## Answer:

## D Watch Video Solution

## 193. $P$ ( Impossible events) $=. . . . . . . . . .$.

A. 4
B. 3
C. -1
D. 0
194. The probability of a face card from red
cards is.

> A. $\frac{3}{13}$
> B. $\frac{13}{3}$
> C. $\frac{2}{17}$

D. None

Answer:
195. The probability of drawing a black king
from the deck is............

> A. $\frac{1}{14}$
> B. $\frac{1}{3}$
> C. $\frac{1}{2}$
> D. $\frac{1}{26}$

Answer:

- Watch Video Solution

196. The probability of drawing a black card from the black cards is
A. 3
B. 2
C. 0
D. 1

## Answer:

# 197. The probability of getting two tails when 

 two coins are tossed isA. $\frac{1}{4}$
B. $\frac{1}{2}$
C. $\frac{2}{3}$
D. None

Answer:

D Watch Video Solution
198. There are.......... Cards in a pack of playing cards.
A. 19
B. 16
C. 52
D. 50

Answer:

D Watch Video Solution
199. IF $\mathrm{P}(\mathrm{E})=0.05$, then $\mathrm{P}(\bar{E})=. . . . . .$.
A. 1.35
B. 0.95
C. 9.5
D. 1.5

Answer:
200. $\mathrm{P}(\mathrm{G})=\frac{4}{17}, \mathrm{P}(\bar{G})=\ldots . . . . .$.

$$
\begin{aligned}
& \text { A. } \frac{13}{17} \\
& \text { B. } \frac{3}{17} \\
& \text { C. } \frac{7}{17} \\
& \text { D. } \frac{1}{17}
\end{aligned}
$$

## Answer:

## - Watch Video Solution

## 201. $\mathrm{P}(\mathrm{N})+\mathrm{P}(\bar{N})=. . . . . . . . .$.

A. 0
B. 1
C. 3
D. 7

Answer:

## D Watch Video Solution

202. A baby is born the probability that it is a boy(or) girl is
A. 1
B. $-\frac{1}{2}$
C. $\frac{1}{3}$
D. $\frac{1}{2}$

Answer:

D Watch Video Solution
203. $P(E)+P(E)=. . . . .$.
A. 1
B. 2
C. 3
D. None

Answer:

D Watch Video Solution
204. Identify the statement. Which is correct?
A. $0 \leq P(E) \leq 1$
B. $0<P(E)<2$
C. $9 \leq P(E)$
D. none

Answer:

## D Watch Video Solution

205. There are...............face cards.
A. 1
B. 2
C. 4
D. None

## Answer:

- Watch Video Solution

206. Probability can never be...........
A. 0
B. 1
C. 0.5
D. -2

## Answer:

## - Watch Video Solution

207. A dice is tossed once then the probability
of getting an even number or a multiple of 3
is.
A. $\frac{1}{2}$
B. $\frac{2}{3}$
C. $\frac{1}{4}$
D. None

## Answer:

## D Watch Video Solution

208. The probability that a leap year has 53
sundays is.
A. $\frac{2}{7}$
B. $\frac{3}{7}$
C. $\frac{1}{7}$
D. $\frac{21}{17}$

## Answer:

## D Watch Video Solution

209. Two dice are thrown once together. What is the probability of getting a doublet?
A. $\frac{1}{4}$
B. $\frac{1}{2}$
C. $\frac{1}{6}$
D. None

Answer:

- Watch Video Solution

210. $\mathrm{P}(\mathrm{E})-1+\mathrm{P}(\bar{E})=\ldots \ldots . . .$.
A. -2
B. 0
C. 9
D. 2

## Answer:

## D Watch Video Solution

211. $\mathrm{P}(\mathrm{E})=0.455$ then $\mathrm{P}(\bar{E})=\ldots . . . . . . . .$.
A. 0.545
B. 0.145
C. 0.345

## D. None

## Answer:

## D Watch Video Solution

212. $P\left(A^{1}\right)=. . . . . . . . .$.
A. $\phi$
B. A
C. $1-P$
D. none

## Answer:

## D Watch Video Solution

213. Karishma and Reshma are playing chess.

The probability of winning Karishma is 0.59 .

Then probability of Reshma winning the match is
A. 1
B. 0.46
C. 0.5

## D. 0.41

## Answer:

## D Watch Video Solution

214. Vinneta said that probability of impossible events is 1, Dhanalakshmi said that probability of sure event is ' 0 ' and Sireesha said that probability of any event lies in between 0 and 1 . In the above with whom will you agree?
A. Vineetha
B. Dhanalaksmi
C. Sireesha
D. All the three

## Answer:

## D Watch Video Solution

215. A page is opened at random from a book containing 90 pages. Then the probability of a page number is a perfect square is.
A. $\frac{90}{90}$
B. $\frac{2}{90}$
C. $\frac{1}{90}$
D. none

## Answer:

## D Watch Video Solution

216. The probability of picking a king card from
a well shuffled deck of playing cards is.
A. $\frac{1}{13}$
B. $\frac{1}{26}$
C. $\frac{1}{2}$
D. 1

Answer:

## D Watch Video Solution

217. Getting a prime (or) composite
A. Mutually exclusive

## B. Equally likely

C. 0
D. None

## Answer:

## - Watch Video Solution

## 218. $\mathrm{P}(\mathrm{E})=0.65$ then $\mathrm{P}(\bar{E})=\ldots . . .$.

A. 0.25
B. 1
C. 0.35
D. 0

## Answer:

( Watch Video Solution
219. The probability of getting a head when a coin is tossed once is.............
A. 0
B. $\frac{1}{2}$
C. $\frac{1}{4}$
D. 1

## Answer:

- Watch Video Solution


## 220. Which one of the following cannot be the

probability of an event?
A. 0.7
B. $\frac{2}{3}$

## C. -1.5

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

## Answer:

(D) Watch Video Solution

