CLASS X PROBABILITY-2025-26

A card is drawn at random from a well shuffled pack of 52 playing cards. Find the probability of getting a

B) $\frac{2}{26}$ C) $\frac{3}{26}$ D) $\frac{5}{26}$

1

red face card.

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2	A die is thrown once. What is the probability of g	
	A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) $\frac{1}{6}$	D) $\frac{1}{2}$
3	One card is drawn from a pack of 52 cards, each of	of the 52 cards being equally likely to be drawn. Find the
	probability that the card drawn is an ace.	
	A) $\frac{2}{13}$ B) $\frac{1}{13}$ C) $\frac{1}{26}$	D) $\frac{1}{-}$
4	13 13 26 A hag contains 3 red halls 5 black halls and 4 wh	ite balls. A ball is drawn at random from the bag. What is
•	the probability that the ball is white?	tie buils. It buil is drawn at fundoin from the bug. What is
	$\frac{1}{A}$	$D)$ $\frac{1}{2}$
_	A) $\frac{52}{52}$ B) $\frac{4}{4}$ C) $\frac{12}{12}$	D) $\frac{1}{3}$ e word 'ASSASSINATION' Find the probability that the
5		e word 'ASSASSINATION' Find the probability that the
	letter chosen is a vowel?	3
	A) $\frac{1}{13}$ B) $\frac{1}{13}$ C) $\frac{1}{13}$	D) $\frac{3}{13}$ 2 cards. Find the probability of getting the jack of hearts.
6	One card is drawn from a well-shuffled deck of 52	2 cards. Find the probability of getting the jack of hearts.
	A) $\frac{1}{52}$ B) $\frac{1}{26}$ C) $\frac{1}{12}$	D) $\frac{1}{12}$
7	Two players, Sangeeta and Reshma, play a tennis	D) $\frac{1}{13}$ match. It is known that the probability of winning the
	match by Sangeeta is 0.62. What is the probability	
	A) 0.38 B) 0.62 C) 0.28	D) 1
8	A letter of English alphabet is chosen at random.	Determine the probability that the chosen letter is a
	consonant.	
	A) $\frac{22}{26}$ B) $\frac{21}{26}$ C) $\frac{5}{26}$	D) $\frac{4}{}$
9	A game of chance consists of spinning an arrow w	which comes to rest pointing at one of the numbers 1, 2,
		es. Find the probability that the arrow will point at any
	factor of 8.	est I ma the producting that the arrow win point at any
	A) $\frac{1}{8}$ B) $\frac{1}{4}$ C) $\frac{1}{2}$	D) 0
10		
10	the selected ticket has a number which is a multip	g tickets numbered from 1 to 40. Find the probability that
	A) $\frac{8}{52}$ B) $\frac{1}{5}$ C) $\frac{1}{52}$	$\frac{D}{5}$
11	A pair of dice is thrown once. Find the probability	
	A) $\frac{1}{6}$ B) $\frac{1}{12}$ C) $\frac{1}{36}$	D) $\frac{1}{3}$
12	Two dice are rolled once. Find the probability of g	getting such numbers on the two dice, whose product is
	12.	
	A) $\frac{1}{3}$ B) $\frac{1}{6}$ C) $\frac{1}{36}$	D) $\frac{1}{2}$
13		the probability of drawing a blue ball from the bag is
	thrice that of a red ball, find the number of blue ba	· · · · · · · · · · · · · · · · · · ·
	A) 5 B) 15 C) 10	D) 3
14		If a card is drawn at random from the box, find the
	probability that the number on the card is a perfec	
	A) $\frac{2}{25}$ B) $\frac{1}{25}$ C) $\frac{4}{49}$	D) $\frac{1}{50}$
	['] 25 ['] 49	´ 50

15	Cards numbered from 11 to 60 are kept in a box. If a card is drawn at random from the box, find the probability that the number on the card is a prime number less than 25
	A) $\frac{1}{10}$ B) $\frac{5}{49}$ C) $\frac{4}{49}$ D) $\frac{1}{2}$
16	Two coins are tossed simultaneously. Find the probability of getting exactly one head.
	(A) $\frac{1}{4}$ (B) $\frac{1}{2}$ (C) $\frac{2}{3}$ (D) $\frac{3}{4}$
17	Cards marked with numbers 3, 4, 5, 50 are placed in a box and mixed thoroughly. One card is drawn at random from the box. Find the probability that number on the drawn card is divisible by 7
	A) $\frac{6}{48}$ B) $\frac{7}{47}$ C) $\frac{7}{48}$ D) $\frac{6}{47}$
18	Cards, marked with numbers 5 to 50, are placed in a box and mixed thoroughly. A card is drawn from the box at random. The probability that the number on the taken card is a number which is a perfect square is
	$\frac{}{}$
	A) $\frac{3}{46}$ B) $\frac{5}{46}$ C) $\frac{5}{45}$ D) $\frac{6}{46}$
19	Cards, marked with numbers 5 to 50, are placed in a box and mixed thoroughly. A card is drawn from the box at random. Find the probability that the number on the taken card is
	a prime number less than 10.
	A) $\frac{1}{23}$ B) $\frac{1}{24}$ C) $\frac{2}{47}$ D) $\frac{1}{47}$
20	Cards, marked with numbers 5 to 50, are placed in a box and mixed thoroughly. A card is drawn from the
	box at random. Find the probability that the number on the taken card is
	a number which is a perfect square
	A) $\frac{5}{46}$ B) $\frac{1}{46}$ C) $\frac{1}{47}$ D) $\frac{2}{47}$
21	A bag contains 5 red, 4 blue and 3 green balls. A ball is taken out of the bag at random. Find the
21	probability that the selected ball is of red colour
22	A) $\frac{5}{12}$ B) $\frac{1}{12}$ C) $\frac{4}{12}$ D) $\frac{3}{12}$
22	A bag contains 5 red, 4 blue and 3 green balls. A ball is taken out of the bag at random. Find the
	probability that the selected ball which is not of green colour.
	A) $\frac{5}{12}$ B) $\frac{4}{12}$ C) $\frac{3}{4}$ D) $\frac{1}{9}$
23	A card is drawn at random from a well-shuffled deck of playing cards. Find the probability of drawing a
	face card.
	A) $\frac{3}{13}$ B) $\frac{4}{13}$ C) $\frac{12}{13}$ D) $\frac{1}{13}$
24	A card is drawn at random from a well-shuffled deck of playing cards. Find the probability of drawing a
	card which is neither a king nor a red card.
	A) $\frac{3}{13}$ B) $\frac{4}{13}$ C) $\frac{12}{13}$ D) $\frac{6}{13}$
25	15 cards, numbered 1, 2, 3,, 15 are put in a box and mixed thoroughly. A card is drawn at random from
	the box. Find the probability that the card drawn bears an even number
	A) $\frac{6}{15}$ B) $\frac{7}{15}$ C) $\frac{8}{15}$ D) $\frac{1}{15}$
26	
26	15 cards, numbered 1, 2, 3,, 15 are put in a box and mixed thoroughly. A card is drawn at random from
	the box. Find the probability that the card drawn bears a number divisible by 2 or 3.
	A) $\frac{9}{15}$ B) $\frac{2}{3}$ C) $\frac{8}{15}$ D) $\frac{11}{15}$
27	A card is drawn at random from a pack of 52 playing cards. Find the probability that the card drawn is
	neither an ace nor a king
	A) $\frac{3}{13}$ B) $\frac{11}{13}$ C) $\frac{12}{13}$ D) $\frac{6}{13}$
28	Find the probability of getting 53 Fridays in a leap year.
	A) $\frac{3}{7}$ B) $\frac{1}{7}$ C) $\frac{3}{7}$ D) 1
	7 7 7 7 7

	A) $\frac{1}{49}$ B) $\frac{4}{49}$ C) $\frac{3}{49}$ D) $\frac{12}{49}$
31	Three cards of spades are lost from a pack of 52 playing cards. The remaining cards were well shuffled and
	then a card was drawn at random from them. Find the probability that the drawn cards is of black colour.
	A) $\frac{24}{49}$ B) $\frac{23}{49}$ C) $\frac{22}{49}$ D) $\frac{21}{49}$
32	Find the probability that a leap year should have exactly 52 Tuesdays.
	A) $\frac{5}{7}$ B) $\frac{1}{7}$ C) $\frac{3}{7}$ D) $\frac{2}{7}$
33	Cards marked with numbers 3, 4, 5,, 50 are placed in a box and mixed thoroughly. One card is drawn
33	at random from the box. Find the probability that number on the drawn card is divisible by 9
34	A) $\frac{4}{48}$ B) $\frac{5}{48}$ C) $\frac{3}{48}$ D) $\frac{1}{48}$ Cards marked with numbers 3, 4, 5,, 50 are placed in a box and mixed thoroughly. One card is drawn
31	at random from the box. Find the probability that number on the drawn card is a number which is a perfect
	square.
	A) $\frac{4}{48}$ B) $\frac{5}{48}$ C) $\frac{3}{48}$ D) $\frac{1}{48}$
35	Cards bearing numbers 1, 2,3,4, 5,, 18 are kept in a bag. A card is drawn at random from the bag.
	Find the probability of getting a card bearing a prime number less than 15.
	A) $\frac{1}{2}$ B) $\frac{1}{4}$ C) $\frac{1}{3}$ D) $\frac{1}{6}$
36	Cards bearing numbers 1, 2,3,4, 5,, 18 are kept in a bag. A card is drawn at random from the bag.
	Find the probability of getting a card bearing a number divisible by 3 and 5.
	A) $\frac{1}{2}$ B) $\frac{1}{18}$ C) $\frac{1}{3}$ D) $\frac{1}{6}$
37	A bag contains 5 white balls, 7 red balls, 4 black balls and 2 blue balls. One ball is drawn at random from
	the bag. What is the probability that the ball drawn is white or blue.
	A) $\frac{7}{18}$ B) $\frac{1}{18}$ C) $\frac{1}{3}$ D) $\frac{11}{18}$.
38	A bag contains 5 white balls, 7 red balls, 4 black balls and 2 blue balls. One ball is drawn at random from
	the bag. What is the probability that the ball drawn is red or black
	A) $\frac{7}{18}$ B) $\frac{1}{18}$ C) $\frac{1}{3}$ D) $\frac{11}{18}$
39	A bag contains 5 white balls, 7 red balls, 4 black balls and 2 blue balls. One ball is drawn at random from
	the bag. What is the probability that the ball drawn is not white
	A) $\frac{12}{18}$ B) $\frac{13}{18}$ C) $\frac{1}{3}$ D) $\frac{11}{18}$
40	A bag contains 5 white balls, 7 red balls, 4 black balls and 2 blue balls. One ball is drawn at random from
	the bag. What is the probability that the ball drawn is neither white nor black.
	A) $\frac{1}{2}$ B) $\frac{1}{18}$ C) $\frac{1}{3}$ D) $\frac{1}{6}$
41	A card is drawn at random from a well-shuffled deck of playing cards. Find the probability that the card
	drawn is a king or a jack
	A) $\frac{2}{13}$ B) $\frac{1}{13}$ C) $\frac{11}{13}$ D) $\frac{12}{13}$
42	A card is drawn at random from a well-shuffled deck of playing cards. Find the probability that the card
	drawn is a non-ace
	A) $\frac{2}{13}$ B) $\frac{1}{13}$ C) $\frac{11}{13}$ D) $\frac{12}{13}$

The king, queen and jack of diamonds are removed from a pack of 52 cards and then the pack is well shuffled. A card is drawn from the remaining cards. Find the probability of getting a card of diamonds

The king, queen and jack of diamonds are removed from a pack of 52 cards and then the pack is well

shuffled. A card is drawn from the remaining cards. Find the probability of getting a card of a jack

11 49

B)

30

	drawn is neither a king nor a queen.
	A) $\frac{2}{13}$ B) $\frac{1}{13}$ C) $\frac{11}{13}$ D) $\frac{12}{13}$
45	A box contains 19 balls bearing numbers 1, 2, 3,,19. A ball is drawn at random from the box. What is the probability that the number on the ball is a prime number
	A) $\frac{7}{19}$ B) $\frac{8}{19}$ C) $\frac{9}{19}$ D) $\frac{7}{19}$
46	A box contains 19 balls bearing numbers 1, 2, 3,,19. A ball is drawn at random from the box. What is the probability that the number on the ball is divisible by 3 or 5
	A) $\frac{7}{19}$ B) $\frac{8}{19}$ C) $\frac{9}{19}$ D) $\frac{7}{19}$
47	A box contains 19 balls bearing numbers 1, 2, 3,,19. A ball is drawn at random from the box. What is the probability that the number on the ball is neither divisible by 5 nor by 10
	A) $\frac{16}{19}$ B) $\frac{8}{19}$ C) $\frac{9}{19}$ D) $\frac{7}{19}$
48	A box contains 19 balls bearing numbers 1, 2, 3,,19. A ball is drawn at random from the box. What is the probability that the number on the ball is an even number.
	A) $\frac{7}{19}$ B) $\frac{8}{19}$ C) $\frac{9}{19}$ D) $\frac{7}{19}$
49	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 a black queen . A) $\frac{1}{22}$ B) $\frac{3}{22}$ C) $\frac{1}{23}$ D) $\frac{1}{44}$
50	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 a red card
	A) $\frac{1}{22}$ B) $\frac{3}{22}$ C) $\frac{1}{23}$ D) $\frac{9}{22}$
51	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 a black jack
	A) $\frac{1}{22}$ B) $\frac{3}{22}$ C) $\frac{1}{23}$ D) $\frac{1}{44}$
52	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 a face card.
	A) $\frac{1}{22}$ B) $\frac{3}{22}$ C) $\frac{1}{23}$ D) $\frac{1}{44}$
53	Two dice are thrown simultaneously. What is the probability that: 5 will not come up on either of them?
	A) $\frac{25}{36}$ B) $\frac{1}{36}$ C) $\frac{11}{36}$ D) $\frac{12}{36}$

A card is drawn at random from a well-shuffled deck of playing cards. Find the probability that the card

A) $\frac{1}{2}$ B) $\frac{25}{52}$ C) $\frac{13}{52}$ D) $\frac{12}{52}$ A card is drawn at random from a well-shuffled deck of playing cards. Find the probability that the card

drawn is a red card

44

54	Two dice are thrown simultaneously. What is the probability that: 5 will come up on at least one?
	A) $\frac{25}{36}$ B) $\frac{1}{36}$ C) $\frac{11}{36}$ D) $\frac{12}{36}$
55	Two dice are thrown simultaneously. What is the probability that 5 will come up at both dice?
	A) $\frac{25}{36}$ B) $\frac{1}{36}$ C) $\frac{11}{36}$ D) $\frac{12}{36}$
56	Two dice are rolled once. Find the probability of getting such numbers on two dice, whose product is a
	perfect square.
	A) $\frac{2}{9}$ B) $\frac{7}{36}$ C) $\frac{3}{36}$ D) $\frac{12}{36}$
57	One card is drawn from a well-shuffled deck of 52 cards. Find the probability of drawing:
	(i) an ace
	A) $\frac{2}{13}$ B) $\frac{3}{52}$ C) $\frac{1}{13}$ D) $\frac{1}{26}$
58	One card is drawn from a well-shuffled deck of 52 cards. Find the probability of drawing: (ii) '2' of
	spades
	A) $\frac{2}{13}$ B) $\frac{1}{52}$ C) $\frac{1}{13}$ D) $\frac{1}{26}$
59	One card is drawn from a well-shuffled deck of 52 cards. Find the probability of drawing: '10' of a black
	suit.
	A) $\frac{2}{13}$ B) $\frac{3}{52}$ C) $\frac{1}{13}$ D) $\frac{1}{26}$
60	Cards marked with the numbers 2 to 101 are placed in a box and mixed thoroughly. One card is drawn
	from this box. Find the probability that the number on the card is an even number
	A) $\frac{1}{2}$ B) $\frac{1}{100}$ C) $\frac{49}{100}$ D) $\frac{1}{50}$.
61	Cards marked with the numbers 2 to 101 are placed in a box and mixed thoroughly. One card is drawn
	from this box. Find the probability that the number on the card is a number less than 14
	A) $\frac{1}{100}$ B) $\frac{12}{100}$ C) $\frac{13}{100}$ D) $\frac{11}{100}$
62	Cards marked with the numbers 2 to 101 are placed in a box and mixed thoroughly. One card is drawn
	from this box. Find the probability that the number on the card is
	a number which is a perfect square.
	A) $\frac{10}{100}$ B) $\frac{8}{100}$ C) $\frac{9}{100}$ D) $\frac{11}{100}$
63	Cards marked with the numbers 2 to 101 are placed in a box and mixed thoroughly. One card is drawn
	from this box. Find the probability that the number on the card is a prime number less than 20. A) $\frac{10}{100}$ B) $\frac{8}{100}$ C) $\frac{9}{100}$ D) $\frac{11}{100}$
- 1	100 100 100
64	All the three face cards of spades are removed from a well-shuffled pack of 52 cards. A card is then drawn at more from the remaining peak. Find the probability of getting a black face and
	at random from the remaining pack. Find the probability of getting a black face card.
<i></i>	A) $\frac{1}{49}$ B) $\frac{2}{49}$ C) $\frac{3}{49}$ D) $\frac{4}{49}$
65	All the three face cards of spades are removed from a well-shuffled pack of 52 cards. A card is then drawn at random from the remaining peak. Find the probability of getting a given
	at random from the remaining pack. Find the probability of getting a queen.
	A) $\frac{1}{49}$ B) $\frac{2}{49}$ C) $\frac{3}{49}$ D) $\frac{4}{49}$
66	All the three face cards of spades are removed from a well-shuffled pack of 52 cards. A card is then drawn at random from the remaining peak. Find the probability of getting
	at random from the remaining pack. Find the probability of getting a black card.
67	A) $\frac{22}{49}$ B) $\frac{23}{49}$ C) $\frac{13}{49}$ D) $\frac{25}{49}$ The king, queen and jack of clubs are removed from a deck of 52 playing cards and the remaining cards
U/	are shuffled. A card is drawn from the remaining cards.
	Find the probability of getting a card of heart.

	Find the probability of getting a card of queen	
	A) $\frac{13}{49}$ B) $\frac{12}{49}$ C) $\frac{14}{49}$ D) $\frac{25}{49}$	
69		
	are shuffled. A card is drawn from the remaining cards.	
	Find the probability of getting a card of clubs	
	A) $\frac{10}{49}$ B) $\frac{12}{49}$ C) $\frac{13}{49}$ D) $\frac{9}{49}$	
70		
	and then a card is drawn from it. Find the probability that the drawn card is a black face card.	
	A) $\frac{1}{20}$ B) $\frac{1}{10}$ C) $\frac{1}{21}$ D) $\frac{1}{22}$	
71		
	$\frac{1}{4}$. The probability of selecting a blue ball at random from the same jar is $\frac{1}{3}$. If the jar contains 10 oranges	ge
	balls, find the total number of balls in the jar.	
	A) 24 B) 6 C) 10 D) 18	
72	a white ball is y. 12 more white balls are added to the bag. Now if a ball is drawn from the bag, the	18
	probability of drawing the white ball is $\frac{5}{3}$ y. Find the value of x.	
	A) 5 B) 8 C) 10 D) 6	
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	REVISION	
	1. A card is drawn from a pack of cards numbered 1 to 52. The probability that the number on the card is	is
	a perfect square is	
	2. Two unbiased dice are thrown. The probability that the total score is more than 5 is	
	3. From a well shuffled pack of cards, a card is drawn at random. Find the probability of getting a blac queen.	k
	4. The probability of getting a number between 1 and 100 which is divisible by 1 and itself only is	
	5. A box contains 90 discs, numbered from 1 to 90. If one disc is drawn at random from the box	Κ,
	the probability that it bears prime-number less than 23 is	
	6. A box contains cards numbered 6 to 50. A card is drawn at random from the box. The probability that	ıt
	the drawn card has a number which is a perfect square, is	
	7. A bag contains 5 black balls, 4 white balls and 3 red balls. If a ball is selected random, the probabilit	y
	that it is a black or red ball is	
	8. There are 25 tickets bearing numbers from 1 to 25. One ticket is drawn at random. The probability that	ıt
	the number on it is a multiple of 5 or 6 is 9. If three different coins are tossed together, then find the probability of getting two heads.	
	10. A bag contains 4 red and 6 black balls. A ball is taken out of the bag at random. Find the probability of	۰f
	getting a black ball.	<i>'</i> 1
	11. A bag contains 3 red and 5 black balls. A ball is drawn at random from the bag. What is the probabilit	v
	11. 11 2mg to incumo o 100 and o oracio cano, 11 can io ara in actualdon incim the cag. It has no proceeding	J

A) $\frac{22}{49}$ B) $\frac{23}{49}$ C) $\frac{13}{49}$ D) $\frac{25}{49}$ The king, queen and jack of clubs are removed from a deck of 52 playing cards and the remaining cards

are shuffled. A card is drawn from the remaining cards.

that the drawn ball is not red?

- 12. Cards bearing numbers 3 to 20 are placed in a bag and mixed thoroughly. A card is taken out from the bag at random. What is the probability that the number on the card taken out is an even number?
- 13. The probability that it will rain tomorrow is 0.85. What is the probability that it will not rain tomorrow?
- 14. Among 52 cards, there are 12 face cards. Probability that a card drawn at random is not a face card
- 15. Out of 400 bulbs in a box, 15 bulbs are defective. One bulb is taken out at random from the box. Find the probability that the drawn bulb is not defective.
- 16. A pair of dice is thrown once. Find the probability of getting the same number on each dice.
- 17. A bag contains 5 red, 4 blue and 3 green balls. A ball is taken out of the bag at random. Find the probability that the selected ball is not of green colour.
- 18. A card is drawn at random from a well-shuffled deck of playing cards. Find the probability of drawing a face card.
- 19. Two different dice are thrown together. Find the probability that the numbers obtained have a product less than 16.
- 20. A bag contains 5 white balls, 7 red balls, 4 black balls and 2 blue balls. One ball is drawn at random from the bag. What is the probability that the ball drawn is white or blue.
- 21. A letter is chosen at random from the letters of the word 'ASSASSINATION' Find the probability that the letter chosen is a vowel?
- 22. A letter of English alphabet is chosen at random. Determine the probability that the chosen letter is a consonant.
- 23. Two dice are rolled once. Find the probability of getting such numbers on the two dice, whose product is 12.
- 24. A card is drawn at random from a well shuffled pack of 52 playing cards. Find the probability of getting a red face card.
- 25. One card is drawn from a deck of 52 cards. Find the probability of getting the jack of hearts