KALYAN ACADEMY BHARATH NAGAR, HYD-18 PROBABILITY | CLASS X | WORKSHEET

NAME :

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- 1. A game of chance of a spanning wheel has number 1 to 10. What is the probability of getting a number less than to 5 when wheel comes to rest?
- 2. Two dice are rolled once what is the probability of getting a doublet?
- 3. A die is rolled once. What is the probability of getting a prime number?
- 4. A bank A.T.M. has notes of denomination 100, 500 and 1000 in equal numbers. What is the probability of getting a note of Rs. 1000?
- 5. What is the probability of getting a number greater than 6 in a single throw of a die?
- 6. A selection committee interviewed 50 people for the post of sales manager. Out of which 35 are males and 15 are females. What is the probability of a female candidate being selected?
- 7. A bag contains cards numbering from 5 to 25. One card is drawn from the bag. Find the probability that the card has numbers from 10 to 15.
- 8. In 1000 lottery tickets there are 5 prize winning tickets. Find the probability of winning a prize. if a person buys one tickets.
- 9. It is known that in a box of 600 screws, 42 screws are defective. One screw is taken out at random from this box. Find the probability that it is not defective.
- 10. Write all the possible outcomes when a coin is tossed twice.
- 11. Two dice are rolled simultaneously. Find the probability that the sum is more than and equal to 10.
- 12. From the well shuffled pack of 52 cards. Two Black king and Two Red Aces are removed. What is the probability of getting a face card?
- 13. In a leap year what is the probability of 53 Sundays.
- 14. A box contains card numbered from 2 to 101. One card is drawn at random. What is the probability of getting a number which is a perfect square?
- 15. A coin is tossed. Find the probability that a head is obtained.
- 16. Find probability of throwing 5 with an ordinary dice.
- 17. Probability of winning a game is 0.4. What is the probability of losing the game?
- 18. A person is known to hit the target in 3 shots out of 4 shots. Find the probability that the target is not hit.
- 19. Tickets numbered from 1 to 20 are mixed together and a ticket is drawn at random. What is the probability that the ticket has a number which is multiple of 3 or 7?

- 20. A bag contains 100 identical tokens, on which numbers 1 to 100 are marked. A token is drawn at random. What is the probability that the number on the token is: (a) an even number (b) an odd number (c) a multiple of 3 (d) a multiple of 5 (f) a multiple of 3 and 5 (g) a multiple of 3 or 5 (h) a number less than 20 (i) a number greater than 70 (j) a perfect square number (k) a prime number less than 20.
- 21. A card is drawn from a well-shuffled pack of cards. Find the probability that the card drawn is: (a) a queen (b) a king bearing diamond sign (c) a black card (d) a jack (e) black and a queen (f) either black or a queen (g) a red card (h) a face card (i) a diamond or a club (j) neither heart nor a jack (k) a 2 of diamond (l) an ace of hearts (m) a face card of red color (n) 10 of a black "suit"
- 22. In a simultaneous toss of two coins, find: (a) P(2 tails) (b) P(exactly one tail) (c) P(no tails) (d) P(at most one head) (e) P(one head)
- 23. A coin is tossed successively three times. Find probability of getting exactly one head or two heads.
- 24. Three coins are tossed once. Find probability of: (a) 3 heads (b) exactly 2 heads (c) at least 2 heads (d) almost 2 heads (e) no tails (f) head and tail appear alternatively (g) at least one head and one tail
- 25. A dice is thrown once. Find: (a) P(number 5) (b) P(number 7) (c) P(an even number) (d) P(a number greater than 4) (e) P(a number less than or equal to 4) (f) P(a prime number)
- 26. A bag contains 10 white, 6 black and 4 red balls. Find probability of getting: (a) a white ball (b) a black ball (c) not a red ball (d) a white or a red ball
- 27. Two dice are thrown simultaneously. Find: (a) P(an odd number as a sum) (b) P(sum as a prime number) (c) P(a doublet of odd numbers) (d) P(a total of at least 9) (e) P(a multiple of 2 on one die and a multiple of 3 on other die) (f) P(a doublet) (g) P(a multiple of 2 as sum) (h) P(getting the sum 9) (i) P(getting a sum greater than 12) (j) P(a prime number on each die) (k) P(a multiple of 5 as a sum)
- 28. Find the probability that a leap year at random contains 53 Sundays.
- 29. Two black kings and two black jacks are removed from a pack of 52 cards. Find the probability of getting: (a) a card of hearts (b) a black card (c) either a red card or a king (d) a red king (e) neither an ace nor a king (f) a jack, queen or a king
- 30. One card drawn from a pack of 52 cards, each of the 52 cards being equally likely to be to drawn. Find the probability that the card drawn is: (i) an once (ii) red (iii) either red or king (iv) red and a king (v) a face card (vi) a red face card (vii) '2' of spades (viii) '10' of a black suit
- 31. The king, queen and jack of clubs are removed from a deck of 52 playing cards and the well shuffled. One card is selected from the remaining cards. Find the probability of getting: (i) a heart (ii) a king (iii) a club (iv) the '10' of hearts.
- 32. A bag contains 5 red balls and some blue balls. If the probability of drawing blue ball is double that of a red ball, find the number of blue balls in the bag.
- 33. A bag contains 5 red balls, 8 white balls, 4 green balls and 7 black balls. If one ball is drawn at random, find the probability that it is: (i) black (ii) red (iii) not green.