

SEGMENT POPPLITYCLSS

- Q1. A coin is tossed. Find the probability that a head is obtained.
- Q2. Find probability of throwing 5 with an ordinary dice.
- Q3. Probability of winning a game is 0.4. What is the probability of loosing the game?
- Q4. A person is known to hit the target in 3 shots out of 4 shots. Find the probability that the target is not hit.

Q5. 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?

Q6. 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.
- Q7. 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
- (I) an ace of hearts
- (m) a face card of red color
- (n) 10 of a black "suit"
- Q8. 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)

Q9. A coin is tossed successively three times. Find probability of getting exactly one head or two heads.

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- Q10. Three coins are tossed once. Find probability of:
- (a) 3 heads
- (b) exactly 2 heads
- (c) atleast 2 heads
- (d) atmost 2 heads
- (e) no tails
- (f) head and tail appear alternatively
- (g) atleast one head and one tail
- Q11. 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)
- Q12. 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
- Q13. 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 atleast 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)
- Q14. Find the probability that a leap year at random contains 53 Sundays.
- Q15. 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



ANSWERS

Ans(1)1/2 Ans(2)1/6 Ans(3)0.6 Ans(4)1/4 Ans(5)2/5 Ans(6) (a)1/2 (b)1/2 (c)33/100 (d)1 /5 (e) 3/50(f) 47/100(g) 19/100(h) 3/10Ans(7) (a) 1/13(b) 1/52(c) 1/2(d) 1/13(e) 1/26(f) 7/13(g)1/2(h) 4/13(i) 1/2(j) 9/13(k) 1/52(l) 1/52(m) 3/26(n) 1/26Ans(8) (a) 1/4(b) 1/2(c) 1/4(d)3/5(e) 1/2Ans(9) 3/4Ans(10) (a) 1/8(b) 3/8(c) 1/2(d) 7/8(e) 1/8(f) 1/4(g) 3/4Ans(11) (a)1/6(b) 0(c) 1/2(d) 1/3(e) 2/3(f) 1/2 Ans(12) (a) 1/2(b) 3/10(c) 4/5(d) 7/10 Ans(13) (a) 1/2(b)5/12(c) 1/12(d) 5/18(e) 11/36(f) 1/6(g) 1/2(h) 1/9(i) 0(j) 1/12(k) 7/36Ans(14) 2/7Ans(15)