

PROBABILITY X Std.

- 1) A die is thrown once. List the sample space (write all the possible outcomes)
Find the probability of getting i) an odd number
ii) an even number iii) a prime iv) a composite no.
v) a number that is neither prime nor composite
vi) a factor of 6 vii) a proper factor of 6 viii) a no. < 5
- 2) Two dice are thrown simultaneously. List the Sample Space for the experiment. (List all the possible outcomes)
- 3) In a single throw of two dice, find the probability of getting
(i) a total of 7. (ii) a total of 11 (iii) Doublets
(iv) Six as a product
- 4) If a single coin is tossed, what are the possible outcomes?
- 5) Two unbiased coins are tossed once. List all the possible outcomes (write the sample space).
- 6) If three coins are tossed simultaneously, what are all the possible outcomes?
- 7) Two unbiased coins are tossed simultaneously. what is the probability of getting i) exactly one head
ii) at least one head iii) no head
iv) at the most one head v) neither head nor tail.
- 8) Three coins are tossed simultaneously. Write the Sample Space and answer the following:
What is the probability of getting i) Two Heads
ii) at least one head iii) at least two heads iv) Three Heads

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- 9) A bag contains 5 red marbles, 8 white marbles, 4 green marbles and 7 black marbles. If one marble is drawn (taken) at random, find the probability that it is i) red ii) white iii) green iv) black.

Verify that the sum of the probabilities of all these elementary events of the experiment is 1

- 10) The Probability that it will rain tomorrow is 0.75. What is the probability that it will not rain tomorrow?

- 11) One card is drawn from a well shuffled deck of 52 playing cards, at random.

Find the probability that the card is i) Red ii) a King iii) a Queen iv) a King or a Queen v) An Ace vi) 10 of a black suit

- 12) A card is drawn at random from a well shuffled deck of playing cards.

Find the probability that the card is

- i) a King or a Jack ii) not an ace
iii) neither a King nor a Queen iv) a face card

- 13) A card is drawn from a well-shuffled deck of playing cards. What is the probability that the card is i) a black Jack ii) a red King iii) not a face card iv) 8 of a Heart

- 14) From a deck of 52 playing cards, King, Queen, Jack and Ace of Hearts are removed. The remaining cards are thoroughly shuffled. If a card is drawn, what is the Probability that it is i) a King ii) a Heart iii) Red Card iv) either a King or a Queen ?