

Probability

- 1) Classify the following statements into the categories less likely, equally likely, more likely.
 - a) Rolling a dice* and getting a number 5 on the top face.
 - b) Cold waves in your village in the month of November.
 - c) India winning the next soccer(foot ball)world cup
 - d) Getting a tail or head when a coin is tossed.
 - e) Winning the jackpot for your lottery ticket.
- 2) If three coins are tossed simultaneously then write their outcomes.
 - a) All possible outcomes
 - b) Number of possible outcomes
 - c) Find the probability of getting at least one head
(getting one or more than one head)
 - d) Find the Probability of getting at most two heads
(getting Two or less than two heads)
 - e) Find the Probability of getting no tails
- 3) The probability of guessing the correct answer to a certain question is $\frac{x}{2}$ If probability of not guessing the correct answer is $\frac{2}{3}$, then find x .
- 4) A bag contains x white, y red and z blue balls. A ball is drawn at the random, then what is the probability of drawing a blue ball.
- 5) Three coins are tossed simultaneously 250 times. The distribution of various outcomes is listed below :
 - (i) Three tails : 30,
 - (ii) Two tails : 70,
 - (iii) One tail : 90,
 - (iv) No tail : 60Find the respective probability of each event and check that the sum of all probabilities is 1