

GMAT Probability Questions: Worksheet

Question 1: In how many ways can the letters of the word "Octopus" be re-positioned in a way that the vowels appear together?

Question 2: 5 coins are tossed simultaneously. What is the probability of getting heads 3 times?

Question 3: If the probability of rain in Mumbai is 10 percent, what is the probability that it does not rain on the 3rd day in a 7 day period?

Question 4: A startup company employs 5 men and 7 women. 4 employees have to be selected for a company event, what is the probability that the team will consist of 2 women employees?

Question 5: A multinational company has 70 female employees and fifty male employees. For the Independence Day event, 4 employees have to be chosen, what will be the probability that the chosen team will consist of 2 female employees?

Question 6: In a society, there are 300 female employees and a hundred male employees. It is analyzed that 20% of the female employees have higher-level degrees whereas only 10% of the male employees have higher-level degrees. If the secretary of society picks up a person, what will be the probability that the person will have a higher level degree and is a male?

Question 7: During a bet, Rajesh tossed a fair coin 4 times. What is the probability that he will get at least 2 tails?

Question 8: A company is sending joining letters to four different candidates. For 4 different letters, different envelopes with the correct address are made. The receptionist will be putting those 4 letters into the 4 envelopes randomly, what will be the probability that only one letter will be put in the envelope having the correct address?

Question 9: If we rearrange the letters of the word 'PROBABILITY', what will be the probability that the position of the consonants that are there in the word will remain unchanged?

Question 10: Each of the 25 balls in a certain box is either red, blue, or white and has a number from 1 to 10 painted on it. If one ball is to be selected at random from the box, what is the probability that the ball selected will either be white or have an even number painted on it?

Question 11: A jar contains 8 red marbles and y white marbles. If Joan takes 2 random marbles from the jar, is it more likely that she will have 2 red marbles than that she will have one marble of each color?

Question 12: Terry holds 12 cards, each of which is red, white, green, or blue. If a person is to select a card randomly from the cards Terry is holding, is the probability less than $\frac{1}{2}$ that the card selected will be either red or white?

Question 13: A box contains 10 light bulbs, fewer than half of which are defective. Two bulbs are to be drawn simultaneously from the box. If n of the bulbs in a box is defective, what is the value of n ?

Question 14: 10 members of society, including members A and B, attended a meeting. 2 of these members were selected to form a committee. What is the probability that the 2 members selected were members A and B?

Question 15: Stacey needs to guess the last 3 questions of a quiz. Each question has 5 answer choices, one of which is correct. What is the probability that she gets at least 1 of the questions correct?