



DELHI PUBLIC SCHOOL FIROZABAD

(UNDER THE AEGIS OF DELHI PUBLIC SCHOOL SOCIETY EAST OF KAILASH NEW DELHI)

(A SENIOR SECONDARY SCHOOL)

AFFILIATED TO CBSE, AFFILIATION NO. 2133064 SCHOOL NO: 61225

SECOND TERM (WORKSHEET 2) - 2021-22



Class : 11

Name _____

Roll No. _____

Subject : MATHS

Topic – PROBABILITY

DATE : 18.01.22

1. If A and B are two events for which $P(A) = 0.60$, $P(A \text{ or } B) = 0.85$ and $P(A \text{ and } B) = 0.42$, FIND $P(B)$.
2. The probability that a company executive will travel by plane is $\frac{2}{5}$ and he will travel by train is $\frac{1}{3}$. Find the probability of his travelling by plane or train.
3. From a well shuffled pack of 52 cards, a card is drawn at random. Find probability of its being a king or a queen.
4. From a pack of cards a card is drawn at random. Find the probability of its being either a queen or a heart.
5. A number is chosen at random from the numbers 1 to 100. Find the probability of its being divisible by 4 or 6.
6. A die is thrown twice. What is the probability that at least one of the two throws come up with the number 4?
7. Two dice are tossed once. Find the probability of getting an even number on the first die or a total of 8.
8. The probability that Hemant passes in English is $\frac{2}{3}$ and the probability that he passes in Hindi is $\frac{5}{9}$. If the probability of his passing both the subjects is $\frac{2}{5}$, find the probability that he will pass in at least one of these subjects.
9. A natural number is chosen at random from among the first 500. What is the probability that the number so chosen is divisible by 3 or 5?
10. A box contains 100 bolts and 50 nuts. It is given that 50% bolts and 50% nuts are rusted. Two objects are selected from the box at random. Find the probability that either both are bolts or both are rusted.
11. Two cards are drawn at random from a pack of 52 cards. What is the probability that either both are red or both are kings?
12. If $\frac{7}{10}$ is the probability of occurrence of an event, what is the probability that it does not occur?
13. In a single throw of three dice, find the probability of getting a total of 5, and a total of at most 5.