Worksheet

1. Two coins are tossed simultaneously. Find the probability of getting at least one head.

2. Three coins are tossed simultaneously. Find the probability of getting three tails.

3. A die is rolled once. Find the probability of getting a composite number.

4. Two dice are rolled simultaneously. Find the probability of getting
   a. sum of two numbers on the top of dice as less than 5.
   b. sum of two numbers on the top of dice as 11.
   c. sum of two numbers on the top of dice less than 12.
   d. sum of two numbers on the top of dice as 12.

5. In a box, there are cards bearing numbers from 5 to 16. A card is drawn at random from the box. Find the probability of getting
   a. an odd number
   b. an even number
   c. a prime number
   d. a composite number

6. A bag contains 6 red marbles, 5 blue marbles and 4 yellow marbles. Find the probability of getting
   a. red marble
   b. blue or yellow marble

7. Two coins are tossed simultaneously 300 times. The frequency of getting

   both head = 75, one head = 160, no head = 65

   Find the probability of occurrence of each of these events.

8. The record of weather station shows that out of past 100 days, the forecasts of weather station were correct 75 times. Find the probability that on a selected day out of these, the forecast was incorrect.

9. Choose the correct answer.
   a. Today is Sunday. The probability that tomorrow will be Monday is

      i. $\dfrac{1}{2}$
      ii. 0
      iii. 1
      iv. 2

   b. The probability of selecting a vowel from the English alphabet is

      i. $\dfrac{1}{2}$
      ii. $\dfrac{5}{21}$
      iii. $\dfrac{5}{26}$
      iv. $\dfrac{21}{26}$

   c. Today is Sunday. The probability that tomorrow will be Saturday is

      i. $\dfrac{1}{2}$
      ii. 0
      iii. 1
      iv. 2

   d. The probability of solving a question correctly is

      i. 0
      ii. 1
      iii. $\dfrac{1}{2}$
      iv. −1

Answers to Worksheet

1. $\dfrac{3}{4}$

2. $\dfrac{1}{8}$

3. $\dfrac{1}{2}$

4. a. $\dfrac{1}{6}$ b. $\dfrac{1}{18}$ c. $\dfrac{35}{36}$ d. $\dfrac{1}{36}$

5. a. $\dfrac{1}{2}$ b. $\dfrac{1}{2}$ c. $\dfrac{1}{3}$ d. $\dfrac{2}{3}$

6. a. $\dfrac{2}{5}$ b. $\dfrac{3}{5}$

7. $\dfrac{1}{4}$; $\dfrac{8}{15}$; $\dfrac{13}{60}$

8. $\dfrac{1}{4}$

9. a. iii b. iii c. ii d. iii