

Class 10 Probability

May 16, 2023

1. Probability of happening of an event is denoted by p and probability of non-happening of the event is denoted by q . Relation between p and q is
 - (a) $p+q=1$
 - (b) $p=1, q=1$
 - (c) $p=q-1$
 - (d) $p+q+1=0$
2. A girl calculates that the probability of her winning the first prize in a lottery is 0.08. If 6000 tickets are sold, how many tickets has she bought ?
 - (a) 40
 - (b) 240
 - (c) 480
 - (d) 750

3. In a group of 20 people, 5 can't swim. If one person is selected at random, then the probability that he/sh can swim, is
- (a) $\frac{3}{4}$
 - (b) $\frac{1}{3}$
 - (c) 1
 - (d) $\frac{1}{4}$
4. A bag contain 4 red, 3 blue and 2 yellow balls. One ball is drawn at random from the bag. Find the probability that drawn ball is
- (i) red
 - (ii) yellow
5. A bag contain 100 cards numbered 1 to 100. A card is drawn at random from the bag. What is the probability that the number on the card is a perfect cube ?
- (a) $\frac{1}{20}$
 - (b) $\frac{3}{50}$
 - (c) $\frac{1}{25}$
 - (d) $\frac{7}{100}$
6. If three coins are tossed simultaneously, what is the probability of getting a most one tail ?

- (a) $\frac{3}{8}$
- (b) $\frac{4}{8}$
- (c) $\frac{5}{8}$
- (d) $\frac{7}{8}$

7. Two dics are thrown together. The probability of getting the difference of numbers on their upper faces equals to 3 is :

- (a) $\frac{1}{9}$
- (b) $\frac{2}{9}$
- (c) $\frac{1}{6}$
- (d) $\frac{1}{12}$

8. A card is drawn at random from a well-shuffled pack of 52 cards. The probability that the card drawn is not an ace is :

- (a) $\frac{1}{13}$
- (b) $\frac{9}{13}$
- (c) $\frac{4}{13}$
- (d) $\frac{12}{13}$

9. **Assertion (A) :** The probability that a leap year has 53 Students is $\frac{2}{7}$.

Reason (R) : The probability that a non-leap year has 53 Sundays is $\frac{5}{7}$.

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- (b) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A).
- (c) Assertion (A) is true but Reason (R) is false.
- (d) Assertion (A) is false but Reason (R) is true.