



SpeedLabs

MATHS

CBSE 7th

TEEVRA EDUTECH PVT. LTD.

Q.1 Tell whether the following is certain to happen, impossible, can happen but not certain.

- (i) You are older today than yesterday.
- (ii) A tossed coin will land heads up.
- (iii) A die when tossed shall land up with 8 on top.
- (iv) The next traffic light seen will be green.
- (v) Tomorrow will be a cloudy day.

Sol:

- (i) Certain
- (ii) Can happen but not certain
- (iii) Impossible as there are only six faces on a dice marked as 1, 2, 3, 4, 5, 6 on it.
- (iv) Can happen but not certain
- (v) Can happen but not certain

Q.2 There are 6 marbles in a box with numbers from 1 to 6 marked on each of them.

- (i) What is the probability of drawing a marble with number 2?
- (ii) What is the probability of drawing a marble with number 5?

Sol: Total marbles from 1 to 6 marked in a box = 6

(i) The probability of drawing a marble with number 2.

$$\Rightarrow P(\text{drawing one marble}) = \frac{1}{6}$$

(ii) The probability of drawing a marble with number 5.

$$\Rightarrow P(\text{drawing one marble}) = \frac{1}{6}$$

Q.3 A coin is flipped to decide which team starts the game. What is the probability that your team will start?

Sol: A coin has two possible outcomes Head and Tail.

Probability of getting Head or Tail is equal.

$$\therefore P(\text{Starting game}) = \frac{1}{2}$$

Q.4 A box contains pairs of socks of two colours (black and white). I have picked out a white sock. I pick out one more with my eyes closed. What is the probability that it will make a pair?

Sol: It can be observed that while closing the eyes, one can draw either a black sock or a white sock. Therefore, there are two possible cases.

$$\text{Probability (a pair of white socks will be formed)} = \frac{1}{2}$$