

CBSE Class –VII Mathematics
NCERT Solutions
Chapter 3 Data Handling (Ex. 3.4)

Question 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.

Answer: (i) It is certain to happen.

(ii) It can happen but not certain.

(iii) It is impossible.

(iv) It can happen but not certain.

(v) It can happen but not certain.

Question 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?

Answer: 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.

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

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

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

Probability of getting Head or Tail is equal.

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