Mathematics
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(Chapter – 3) (Data Handling)
(Class – VII)

Exercise 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 1:
(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 2:
Total marbles from 1 to 6 marked in a box = 6

(i) The probability of drawing a marble with number 2.
⇒ P (drawing one marble) = \(\frac{1}{6}\)

(ii) The probability of drawing a marble with number 5.
⇒ P (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 3:
A coin has two possible outcomes Head and Tail.
Probability of getting Head or Tail is equal.
∴ P (Starting game) = \(\frac{1}{2}\)