**EXERCISE 3.4** **PAGE: 76**

**1. Tell whether the following is certain to happen, impossible, can happen but not certain.**
**(i) You are older today than yesterday.**
**Solution:-**
It is certain to happen.

**(ii) A tossed coin will land heads up.**
**Solution:-**
It can happen but not certain.

**(iii) A die when tossed shall land up with 8 on top.**
**Solution:-**
It is impossible. Because, there are only six faces on a die is marked as 1, 2, 3, 4, 5, and 6 on it.

**(iv) The next traffic light seen will be green.**
**Solution:-**
It can happen but not certain.

**(v) Tomorrow will be a cloudy day.**
**Solution:-**
It can happen but not certain.

**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?**
**Solution:-**
From the question, it is given that
There are 6 marbles in the box with numbers from 1 to 6 are marked.
Probability of drawing a marble with number 2 = Number of favourable outcomes/
                                              Number of possible outcomes
                                            = (1/6)

**(ii) What is the probability of drawing a marble with number 5?**
**Solution:-**
From the question, it is given that

There are 6 marbles in the box with numbers from 1 to 6 are marked.
Probability of drawing a marble with number 5 = Number of favourable outcomes/
Number of possible outcomes
= (1/6)

**3. A coin is flipped to decide which team starts the game. What is the probability that your team will start?**
**Solution:-**
A coin has two faces one is Head and other one is Tail.
Now, one team can choose either Head or Tail.
Probability of our team starts first= Number of favourable outcomes/
Number of possible outcomes
= ½