

# Chapter 18

## Probability

### Chance - Probability

Understand Chance (Probability) and predict the likelihood of a simple event happening

#### What is meant by "Probability" ?

When we talk about the **probability** of an event happening, we mean the **chance** or **likelihood** of the event taking place.

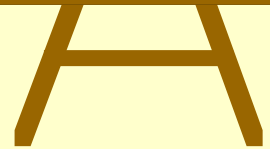
#### Example :-

What is the **probability** or **chance** that everyone in the class likes the same flavour of ice cream ?

Do you think this is possible, impossible or certain ?

Predict the outcome, and then ask other people in your class what they think about ice cream in a survey.

Were your thoughts close to what you found ?



### Exercise 1

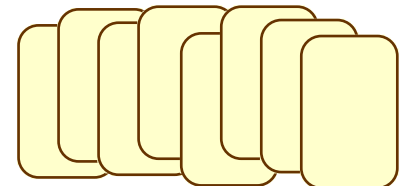
Use these words to answer the following questions :-

(certain - likely - an even chance - unlikely - impossible)

1. Willis places cards numbered 1-8 face down on the table.

If he picks one card at random how **likely** is it that :-

- a he will choose the card with 3 on it
- b he will choose a card with a number from 1 to 6 on it
- c he will choose a card marked 15 ?

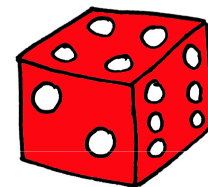


2. Sarah is rolling a six sided die, (singular of dice).

If she rolls a 5 or a 6 she wins the game.

If she rolls any other number she loses.

Should she have more **wins** or **losses** ?



3. Lucy was asked to choose a number from 1 to 10.

What is the **chance** she chooses :-

- a the number 5
- b an even number
- c the number 12
- d any number from 2 to 9 ?

4. Charlie's goal shooting average in basketball is 80 out of 100.

What is Charlie's chance of getting a basket the next time he shoots ?

