Calculators should NOT be used in this chapter.
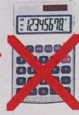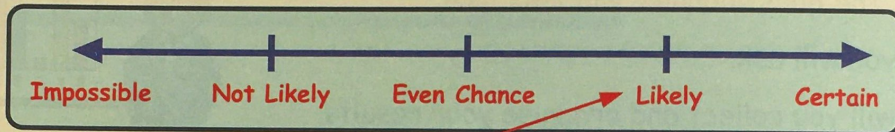
Be able to find the likelihood of an event happening.

Likely or Unlikely ?

When we talk about the **Chance** of something happening, we mean whether it is **likely** or **unlikely** to happen.

It may be **certain**, **impossible** or somewhere **in between**.

This line is called a **Chance Line** :-

| Impossible | Not Likely | Even Chance | Likely | Certain |

For example, we know that it is **likely** to snow sometime in December.

Exercise 1

1. Use one of these words to say how likely it is for each of these to happen :-

Impossible   **Not Likely**   **Even Chance**   **Likely**   **Certain**

a   You will eat something today.

b   You will go to bed before 7 o'clock on a Saturday night.

c   You will ski to school tomorrow.

d   You will go into a shop this week.

e   You will run a mile on Sunday morning.

f   You pick a card from a pack - it will be black.

g   The roofs will get wet if it rains.

h   You will eat sweets and your weight will not rise.

i   You will have a birthday this year.

j   You will find a slice of pear in an apple crumble.

k   You pick a jelly bean from this jar - it will be red.

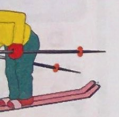l   The person checking your ticket on a train will be male.

2. Which label best fits each of these events ?

a Picking the ace of spades from a pack of cards.

b Getting an even number when you roll a dice.

c You will drive to school.

d It will not rain at all in January.

e If you drop a coin on the floor, it will land
   tails up.

f A domino will have at least one dot on it.

g You can play good golf in the dark with no light.

Impossible

Unlikely

Even Chance

Likely

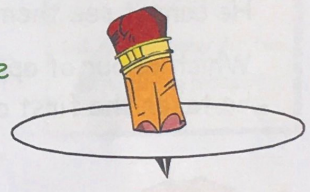**Certain**

3. a Imagine you had a circular piece of card with a small
      pencil stuck through its middle to make a spinner.

      Draw the circle in your jotter and use red and blue
      to colour it so that there is an **equal chance**
      that it will land on red or blue.

   b Now draw and colour a circle that does **not** give an even chance.

4. a Write down 3 events that you think are **likely** to happen.

   b Write down 3 events that you think are **unlikely** to happen.

> Some events have an **equal chance** of happening and others do **not**.

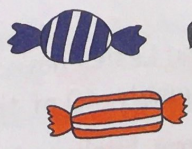5. Which of these gives an **evens chance** ? Answer **yes** or **no**.

   a When tossing a coin you get heads or tails.

   b When chosing a card from a pack, it will be a spade.

   c When a baby was born, it arrived at the weekend.

6. Jenny has **10** chews.

   Some of them are **blue** and the rest are **orange**.

   When she puts them in a bag there is an **equal
   chance** of picking out a **blue** or an **orange** chew.

   How many **orange** chews does she have ?