CHAPTER 18

Probability
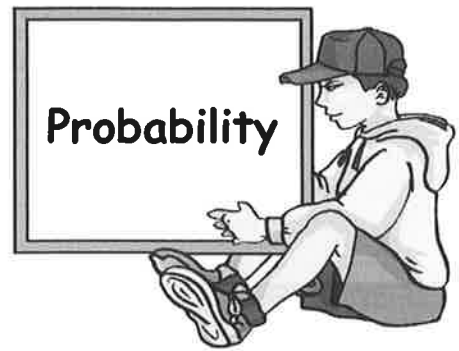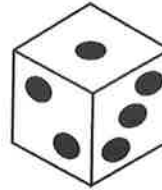
Exercise 1

Use these words to answer the following questions :-

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

1. Terry is rolling a six sided die.
   If he rolls a 1, 2 or a 3 he wins the game.
   If he rolls any other number he loses.

   What's his chances of winning ?

2. Doreen was asked to choose a number from 1 to 20.

   What is the chance of her choosing :-

   a the number 9   b an odd number

   c the number 21   d a number divisible by 3 ?

3. When golfing, Monty got out of a sand bunker, first time, 47 times out of the last 50 times he ended up in one.

   What is Monty's chance of getting out first time when he is next in a bunker ?

Exercise 2

1. On a plate of scones, 7 are fruit and 3 are plain.

   What is the **probability** that on your first pick you will choose a fruit scone ? (i.e. what is **P(fruit scone)** ?)

2. In a race there are 26 cars. 13 are red, 13 are yellow.

   What is the probability of a yellow car winning ?

3. A bag contains 6 ten pence, 7 two pence and 4 fifty pence coins.
   If Val puts her hand into the bag and pulls out one coin, what is the **probability** it will be a coin worth :-

   a 10p   b 2p   c 50p   d £1 ?

4. Sandy is asked to write down his date of birth.

   What is the **probability** he was born in a month ending in the letter Y ? (P(Y)) ?