PROBABILITY

Exercise 1

Choose one word for each event:

IMPOSSIBLE **UNLIKELY** **LIKELY** **CERTAIN**

- Tomorrow will be Christmas day
- I will have pizza for dinner tonight
- It will be very hot tomorrow
- I will be in school tomorrow
- I will be in Disneyworld tonight
- It will get dark tonight
- I will be in bed by midnight tonight
- Tomorrow will be my birthday
- The grass will be purple tomorrow

LIVEWORKSHEETS

Exercise 2

0 stands for IMPOSSIBLE and 1 for a CERTAIN event.

– means there is an EQUAL chance of an event happening.

What is the probability that:



- The grass will be blue tomorrow
- You will breathe today
- Tossing a coin will get you a tail
- Rolling a die will get you an even number
- Rolling a die will get you an odd number



Exercise 3

1 If a letter is chosen at random from the word SUCCESS, what is the probability that it will be:

a) the letter S? **b)** the letter C?

2 If a letter is chosen at random from the word PEPPER, what is the probability that it will be:

a) the letter P? **b)** the letter E?

3 If a letter is chosen at random from the word GEORGE, what is the probability that it will be:

a) the letter E? **b)** the letter G?

c) a vowel(A,E,I,O,U) **d)** a consonant (not a vowel)?

LIVEWORKSHEETS

4 If a letter is chosen at random from the word PENELOPE, what is the probability that it will be:

a) the letter E? **b)** the letter P?



c) a vowel? **d)** a consonant?

5 When a die is rolled what is the probability that the outcome is :

a) the number 5 ? **b)** an even number ? **c)** an odd number ?

6 A game consists of spinning an arrow which is equally likely to land on 1,2,3,4,5. What is the probability it will point to :

a) an even number? **b)** an odd number? **c)** the number 3 ?

LIVEWORKSHEETS

7 There are 30 pupils in a class. 15 have blue eyes, 10 have brown eyes and 5 have green. What is the probability that a pupil will have:

a) blue eyes **b)** green eyes? **c)** brown eyes?

8 A box contains 10 white beads and 20 black beads. If a bead is drawn what is the probability that it is :

a) white **b)** black?

9 If a letter is chosen at random from the word WOODWORK, what is the probability that it will be:

a) the letter O? **b)** the letter W? **c)** a consonant?

LIVEWORKSHEETS

10 If a letter is chosen at random from the word NEEDLEWORK, what is the probability that it will be:

a) the letter E? **b)** a vowel? **c)** a consonant?

11 When a card is drawn at random from a pack of 52 playing cards, what is the probability that it is:

a) an ace? **b)** a heart? **c)** the ace of spades? **d)** a king, queen or jack?



LIVEWORKSHEETS

12 There are 50 cars of the same make in a showroom. 18 are blue, 15 white, 10 green, 7 red. If it is equally likely any one of them will be sold, what is the probability that it will be:

a) white?

b) green?

c) red or blue?

d) neither red nor blue?

LIVEWORKSHEETS

Exercise 4



1) Five cards-10, jack, queen, king, ace- are shuffled face down. One of the cards is picked at random.
   a) What is the probability that the ace is picked?
   b) If the jack is drawn, and kept out, what is the probability that the next card chosen will be an ace?

2) A bag contains 5 white marbles, 3 black and 2 red.
   a) What is the probability that if one marble is chosen at random it will be white?
   b) If a white marble is chosen, and not replaced, what is the probability that a black marble will be chosen next?



3) A bag contains 6 red counters and 10 green counters.
   a) If a counter is removed what is the probability that it is red?
   b) If the counter was red and it was not replaced what is the probability that the next counter to be picked out would also be red?

LIVEWORKSHEETS

4) A bag contains 1 red counter and 5 green counters.

a) If a counter is removed what is the probability that it is red?

b) If the counter was red and it was not replaced what is the probability that the next counter to be picked out would also be red?

5) A bag contains 5 red counters and 12 green counters.

a) If a counter is removed what is the probability that it is red?

b) If the counter was red and it was not replaced what is the probability that the next counter to be picked out would also be red?



LIVEWORKSHEETS

6) A bag contains 8 red counters and 5 green counters.

a) If a counter is removed what is the probability that it is red?

b) If the counter was red and it was not replaced what is the probability that the next counter to be picked out would also be red?

LIVEWORKSHEETS