MNU 3-22a   Homework 5   **Bronze** Level

Outcome 1 - Estimating Probability

Draw a probability line for each of these sets of events...

1 (a) Picking, at random, a red playing card.
(b) You will close your eyes at some point today.
(c) Argentina will win the football European Championships.

2 (a) Selecting a consonant from the word 'FLY'.
(b) Roll a dice and it will land on an odd number.
(c) July will have more than 31 calendar days next year.

3 (a) The next child you see will be a girl.
(b) 'Boxing Day' will be celebrated in June next year.
(c) You will have a birthday this year.

4 (a) A small ice cube will melt on a warm, sunny day.
(b) Toss a coin and it will land on 'heads'.
(c) If today is Saturday then tomorrow is Wednesday.

5 (a) Roll a dice and it will land on a number less than 4.
(b) The September weekend will be in March next year.
(c) Selecting a consonant from the word 'TRY'.

Outcome 2 - Calculating Simple Probability

Write down the probability of each event happening...

1 Rolling a dice and getting a 1.

2 Choosing a playing card at random and getting the 9 of clubs.

3 Tossing a coin and getting 'heads'.

4 Picking a month of the year at random and choosing June.

5 Selecting the letter Y from the word NUMERACY.

6 Picking the number 14 from the numbers on a clock face.

7 Picking a day of the week at random and choosing Wednesday.

8 Choosing a yellow pen from a box containing a red, yellow and green pen.

9 From the days of the year, choosing 4th May.

10 From a bowl containing an apple, a banana, a pear and an orange, selecting an orange.

Outcome 3 - Choosing at Random

A bag contains a green counter, 3 red counters, 5 yellow counters and 2 blue counters. A counter is chosen at random. What is the probability of choosing…

1 a green counter?
2 a red counter?
3 a yellow counter?
4 a blue counter?
5 a purple counter?

A bag contains 8 purple tokens, 4 red tokens, 2 blue tokens and 5 green tokens. A token is chosen at random. What is the probability of choosing…

6 a purple token?
7 a red token?
8 a blue token?
9 a green token?
10 a yellow token?