MNU 2-22a   Homework 5   Gold Level

Outcome 1 - Estimating Probability

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

1
(a) The total score on two dice is more than 12.
(b) The next child you see will be a boy.
(c) You will eat at some point this week.

2
(a) Roll a dice and it will land on an odd number.
(b) April will have more than 30 calendar days next year.
(c) An American Football team will win the Superbowl.

3
(a) June will have more than 30 calendar days next year.
(b) The sun will rise tomorrow morning.
(c) Picking a red playing card at random.

4
(a) The next person you see will be male.
(b) China will win the football European Championships.
(c) Christmas day will on the 25th December next year.

5
(a) Picking an odd number from 1, 3, 5, 7, 9.
(b) Picking a black playing card at random.
(c) April will come before March next year.

Outcome 2 - Calculating Simple Probability

Write down the probability of each event happening...

1 Picking the number 2 from the numbers on a clock face.

2 Selecting the letter N from the word NUMERACY.

3 Choosing a playing card at random and getting the ace of spades.

4 From a bowl containing an apple, a banana, and an orange, picking an orange.

5 Picking a day of the week at random and choosing Monday.

6 Tossing a coin and getting 'tails'.

7 From the days of the year, choosing 4th July.

8 Picking a month of the year at random and choosing December.

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

10 Rolling a dice and getting a 7.

Outcome 3 - Choosing at Random

A bag contains a green counter, 3 red counters, 2 yellow counters and a blue counter. 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 4 purple tokens, 2 red tokens, 3 blue tokens and 2 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?