REVISION SHEET – STATISTICS 1 (MEI)

- **Probabilities based on selecting or arranging objects**
- **Probabilities based on the binomial distribution**
- **The expected value of a binomial distribution**
- **Expected frequencies from a series of trials**

- ! is the number of ways of ordering a collection of   objects and   C is the number of ways of selecting a group of   objects from a total of   objects.
- when a situation can be modelled by the binomial distribution.
- the formula: P(=   ) =   ¯ and how to use it.
- how to use the binomial distribution tables (in particular that they give cumulative probabilities).
- the mean or expected value of   ~ B(.) is
- how to calculate expected frequencies when a set of trials is repeated.

- ! =   × (− 1) × (− 2) … × 2 × 1 is the number of ways of ordering a collection of   objects.
- C _____ is the number of ways of selecting   objects from .

Find the number of different 4-digit numbers than can be made using each of the digits 7,8,9,0 once.

This is the number of ways of ordering the digits 7, 8, 9, 0. For example 7890 and 7809 are two such orderings. This is given by 4! = 4 × 3 × 2 × 1 = 24.
This can be thought of as: "there are 4 possibilities for the 1st number, then there are 3 possibilities for the 2nd number, then there are 2 possibilities for the 3rd number, leaving only one possibility for the 4th number.

Eddie is cooking a dish that requires 3 different spices and 2 different herbs, but he doesn't remember which ones. In his cupboard he has 10 different jars of spices and 5 different types of herb and he knows from past experience that the ones he needs are there.
- (i)   How many ways can he choose the 3 spices?
- (ii)   How many ways can he choose the 2 herbs?
- (iii)   If he chooses the herbs and spices at random what is the probability that he makes the correct selection?

(i) $^{10}C_3 = 120$ (ii) $^5C_2 = 10$ (You can work these out using the C function on a calculator.)
(iii) 1 ÷ (120 × 10) = 0.000833
In part (iii) we multiply the results of (i) & (ii) to get 1200 different possible combinations. Only 1 of these is the correct selection so the probability of making the correct selection is 1 ÷ 1200.

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