

## 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

- $n!$  is the number of ways of ordering a collection of  $n$  objects and  ${}^nC_r$  is the number of ways of selecting a group of  $r$  objects from a total of  $n$  objects.
- when a situation can be modelled by the binomial distribution.
- the formula:  $P(X = r) = {}^nC_r p^r q^{n-r}$  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  $X \sim B(n, p)$  is  $np$ .
- how to calculate expected frequencies when a set of trials is repeated.

- $n! = n \times (n-1) \times (n-2) \dots \times 2 \times 1$  is the number of ways of ordering a collection of  $n$  objects.
- ${}^nC_r = \frac{n!}{r!(n-r)!}$  is the number of ways of selecting  $r$  objects from  $n$ .

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  $4! = 4 \times 3 \times 2 \times 1 = 24$ .

This can be thought of as: "there are 4 possibilities for the 1<sup>st</sup> number, then there are 3 possibilities for the 2<sup>nd</sup> number, then there are 2 possibilities for the 3<sup>rd</sup> number, leaving only one possibility for the 4<sup>th</sup> 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  ${}^nC_r$  function on a calculator.)
- (iii)  $1 \div (120 \times 10) = 0.000833$

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  $1 \div 1200$ .

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## **Table of Contents Ocr Mei S1 24 May 2013**

1. Understanding the eBook Ocr Mei S1 24 May 2013
  - The Rise of Digital Reading Ocr Mei S1 24 May 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Mei S1 24 May 2013
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ocr Mei S1 24 May 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Mei S1 24 May 2013
  - Personalized Recommendations
  - Ocr Mei S1 24 May 2013 User Reviews and Ratings
  - Ocr Mei S1 24 May 2013 and Bestseller Lists
5. Accessing Ocr Mei S1 24 May 2013 Free and Paid eBooks
  - Ocr Mei S1 24 May 2013 Public Domain eBooks
  - Ocr Mei S1 24 May 2013 eBook Subscription Services
  - Ocr Mei S1 24 May 2013 Budget-Friendly Options

6. Navigating Ocr Mei S1 24 May 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Ocr Mei S1 24 May 2013 Compatibility with Devices
  - Ocr Mei S1 24 May 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ocr Mei S1 24 May 2013
  - Highlighting and Note-Taking Ocr Mei S1 24 May 2013
  - Interactive Elements Ocr Mei S1 24 May 2013
8. Staying Engaged with Ocr Mei S1 24 May 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ocr Mei S1 24 May 2013
9. Balancing eBooks and Physical Books Ocr Mei S1 24 May 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ocr Mei S1 24 May 2013
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ocr Mei S1 24 May 2013
  - Setting Reading Goals Ocr Mei S1 24 May 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr Mei S1 24 May 2013
  - Fact-Checking eBook Content of Ocr Mei S1 24 May 2013
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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