

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 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 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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**Jan Dangerfield, Rose Jewell, Sue
Pope, Nick Geere**



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Sport Law Anita M. Moorman, 2017-07-05 Sport Law A Managerial Approach third edition merges law and sport management in a way that is accessible and straightforward Its organization continues to revolve around management functions rather than legal theory Concise explanations coupled with relevant industry examples and cases give readers just enough legal doctrine to understand the important concepts that apply to each area This book will help prepare students as they get ready to assume a broad range of responsibilities in sport education or recreation Whether readers work as coaches or teachers administer professional programs manage fitness health clubs or assume roles in a high school college Olympic or professional sport organization legal concerns will inevitably be woven into their managerial concerns This book provides knowledge of the law that helps create a competitive advantage and build a more efficient and successful operation that better serves the needs of its constituents Special Features of the Book Managerial context tables Chapter opening exhibits act as organizational and study tools identifying managerial contexts in relation to major legal issues relevant law and illustrative cases for the chapter Case opinions focus cases and hypothetical cases Legal opinions both excerpted case opinions and summarized focus cases illustrate relevant legal points and help readers understand the interplay between fact and legal theory The cases include questions for discussion and the instructor s manual provides guidance for the discussion Hypothetical cases further highlight topics of interest and include discussion questions to facilitate understanding of the material analysis and possible responses appear at the end of the chapter Competitive advantage strategies Highlighted focused strategies based on discussions in the text help readers understand how to use the law to make sound operational decisions and will assist them in working effectively with legal counsel Discussion questions learning activities and case studies Thoughtful and thought provoking questions and activities emphasize important concepts they help instructors teach and readers review the material Creative case studies stimulate readers as future sport or recreation managers to analyze situations involving a legal issue presented in the chapter Annotated websites Each chapter includes a collection of web resources to help readers explore topics further Accompanying the web addresses are brief descriptions pointing out key links and the sites benefits Bookmarking these sites will help readers in future research or throughout their careers *Cone Penetration Testing 2018* Michael A. Hicks, Federico Pisanò, Joek Peuchen, 2018-06-13 Cone Penetration Testing 2018 contains the proceedings of the 4th International Symposium on Cone Penetration Testing CPT 18 Delft The Netherlands 21 22 June 2018 and presents the latest developments relating to the use of cone penetration testing in geotechnical engineering It focuses on the solution of geotechnical challenges using the cone penetration test CPT CPT add on measurements and companion in situ penetration tools such as full flow and free fall penetrometers with an emphasis on practical experience and application of research findings The peer reviewed papers have been authored by academics researchers and practitioners from many countries worldwide and cover numerous important aspects ranging from the

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