

## Starter:

In a box of 4 lightbulbs the number of faulty light bulb are given by the probability density function below

X	0	1	2	3	4
P(X=x)	0.45	0.25	0.17	0.08	0.05

- Find summary statistics for the data above ( $E[X]$  and  $\text{Var}[X]$ )
- Comment on the reliability of the light bulbs

$$E[X] = (0 \times 0.45) + (1 \times 0.25) + (2 \times 0.17) + (3 \times 0.08) + (4 \times 0.05) = 1.03$$

$$E[X^2] = (0^2 \times 0.45) + (1^2 \times 0.25) + (2^2 \times 0.17) + (3^2 \times 0.08) + (4^2 \times 0.05) = 2.51$$

$$\text{Var}[X] = 1^2 \times \frac{1}{17} + 2^2 \times \frac{2}{17} + 3^2 \times \frac{3}{17} + 4^2 \times \frac{5}{17} + 5^2 \times \frac{6}{17} = \frac{266}{17}$$

$$\text{Var}(x) = \frac{266}{17} = 1.4471$$

# Mei Edexcel Statistics Discrete Random Values

**Allen Louis Edwards**



## **Mei Edexcel Statistics Discrete Random Values:**

**Edexcel A Level Further Mathematics Statistics** John du Feu, 2018-07-02 Build your students confidence in applying mathematical techniques to solving problems with resources developed with leading Assessment Consultant Keith Pledger and Mathematics in Education and Industry MEI Build reasoning and problem solving skills with practice questions and well structured exercises that build skills and mathematical techniques Develop a fuller understanding of mathematical concepts with real world examples that help build connections between topics and develop mathematical modelling skills Address misconceptions and develop problem solving with annotated worked examples Supports students at every stage of their learning with graduated exercises that build understanding and measure progress Provide clear paths of progression that combine pure and applied maths into a coherent whole

**Revise for Statistics 1** Greg Attwood, Gordon Edward Skipworth, Gordon Skipworth, Gill Dyer, 2001 Revision book written specifically for the Edexcel AS and A Level exams offering worked examination questions and examples with hints on answering examination questions successfully test yourself section key points reinforcing what students have learned and answers to all questions

Edexcel as and a Level Modular Mathematics Statistics 1 S1 Keith Pledger, Greg Attwood, Alan Clegg, Gillian Dyer, Jane Dyer, 2008-07 Includes student friendly worked examples and solutions that lead up to practice questions this title gives students revision advice ideas summaries and exam practice with hints and tips

**Statistics 3** Anthony Eccles, Michael Davies, 2005-04-29 This series well known for accessibility and for a student friendly approach has a wealth of features Worked Examples Activities Investigations Graded Exercises Key Points summaries and Discussion Points To ensure exam success there are plenty of up to date exam questions plus warning signs to indicate common pitfalls MEI offer full support to schools through their network with newsletters training days and an annual conference Statistics 3 builds on topics in the two earlier books in this strand The work on random variables is extended both from discrete to continuous variables and also to include linear combinations of random variables The rest of this book is devoted to inference sampling methods confidence intervals the t test the Wilcoxon signed rank test and the test for goodness of fit Taken together with the two earlier books this book is ideal for any statistics course at this level

*Expected Values of Discrete Random Variables and Elementary Statistics* Allen Louis Edwards, 1964 The mean and variance of a sample Linear transformation Mean and variance of a difference and a sum Random variables and their expected values Expected value of a difference and variance of a difference between two random variables Binomial population Sampling from a finite population without replacement The mean and variance of a set a ranks Expectations of mean squares in a randomized group design Factorial experiments Randomized block design The latin square design Evaluating the outcomes of experiments

My Revision Notes: OCR B (MEI) A Level Mathematics Year 1/AS (Applied) Stella Dudzic, Rose Jewell, 2018-05-21 Exam board OCR Level A level Subject Mathematics First teaching September 2017 First exams Summer 2018 Target success in OCR B MEI A Level Mathematics with this proven formula for effective structured

revision key content coverage and plentiful worked examples are combined with exam style and multiple choice questions to create a revision guide that students can rely on to review strengthen and test their knowledge Help develop the key skills needed for success with skills focused questions around problem solving proof modelling and the use of ICT spreadsheets graphing software and graphing calculators Strategically target revision with diagnostic questions to establish which areas need focus Get assessment ready with exam style questions and advice on common examination pitfalls Embed knowledge and identify weaknesses with hundreds of multiple choice Test Yourself questions all carefully written to elicit misconceptions full worked solutions online offer detailed instructive explanations for all choices whether they are correct or incorrect Consolidate revision with summaries for each topic that focus on what to concentrate on in the build up to exams with special focus on common pitfalls such as how to show correct workings Access answers at the back of the book with detailed step by step worked solutions for ALL questions available for free online      Expected Values of Discrete Random Variables and Elementar Statistics ,1964

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