

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

Lauren Gardner



Mei Edexcel Statistics Discrete Random Values:

Reviewing **Mei Edexcel Statistics Discrete Random Values**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Mei Edexcel Statistics Discrete Random Values**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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