

CHAPTER 5: PROBABILITY

QUESTION 1

You apply for graduate trainee positions at two companies. Let event A represent receiving an offer from the first company. Let event B represent receiving an offer from the second company.

- Explain why events A and B are not exhaustive.
- Explain why events A and B are not mutually exclusive.

MEMO:

- Events are considered exhaustive if they include all outcomes in the sample space. Events A and B are not exhaustive because you may not get an offer from either firm.
- Events are mutually exclusive if they do not share any common outcome of an experiment. Events A and B are not mutually exclusive because you may get an offer from both firms. Both events can occur together, therefore, they are not mutually exclusive.

QUESTION 2

The probability that project A will be completed on time is 0.40 and that project B will be completed on time is 0.60. Further, if project B is completed on time, the probability that project A will also be completed on time is 0.50

- What is the probability that at least one of the projects will be completed on time?
- Are events A and B mutually exclusive? Explain.

MEMO:

Event A = Project A completion

Event B = Project B completion

$$P(A) = 0.40$$

$$P(B) = 0.60$$

$$P(A|B) = 0.50 \text{ (Project } A \text{ is completed on time given that Project } B \text{ is completed on time)}$$

Chapter 5 Probability Test

Gustav Levine



Chapter 5 Probability Test:

Unveiling the Magic of Words: A Review of "**Chapter 5 Probability Test**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Chapter 5 Probability Test**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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