

Workbook

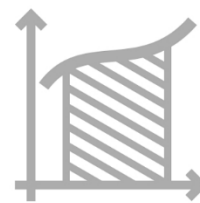


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Questions:

Questions 1-2 refer to the following:

The following diagram displays three normal probability distributions of three different groups drawn on a system of coordinate axes. The probability distributions have been numbered in order to distinguish between them.



- 1) Which probability distribution has the highest average?
 - a. 1
 - b. 2
 - c. 3
 - d. The information is insufficient to determine the answer.

- 2) Which probability distribution has the highest mode?
 - a. 1
 - b. 2
 - c. 3
 - d. The information is insufficient to determine the answer.

Probability

- 3) In a right asymmetric probability distribution, the standard deviation is greater than in a left asymmetric probability distribution.
- The statement is always correct.
 - The statement is never correct.
 - The information is insufficient to determine the answer.
- 4) On the numbers axis, most of the values in a right asymmetric probability distribution are:
- High values.
 - Equally distributed between high and low values.
 - Low values.
 - The information is insufficient to determine the answer.
- 5) Kathy, a famous statistician, claims that when events E and F are mutually exclusive, it can be said that the probability that both event E and event F will occur, equals to the product of the probability that E will occur and the probability that F will occur. In mathematical language: $P(E \cap F) = P(E) \times P(F)$.
- Is Kathy's claim correct?
- The information is insufficient to determine the answer.
 - No.
 - Yes.
 - The term "mutually exclusive events" does not exist in statistics.
 - None of the answers are correct.
- 6) There are five shares in an investment portfolio.
We define an event: none of the shares in the portfolio goes up tomorrow.
Assume that a share can only rise or fall.
The complementary event of this event is:
- At least one share rises.
 - At least one share falls.
 - All the shares rise.
 - Exactly one share rises.
- 7) Given two events, where $P(A) = 0.45$, $P(B) = 0.5$, $P(A \cup B) = 0.95$.
Which statement about the events is correct?
- The events are independent.
 - The events are mutually exclusive.
 - Event B contains Event A .
 - The events are complementary.

Probability

- 8) We want to find the chances of a union of two events.
The probabilities of the two events can be added for this purpose only if the events are:
- Mutually exclusive
 - Not mutually exclusive
 - Dependent
 - Independent

Answer Key:

1) c

2) c

3) c

4) c

5) b

6) a

7) b

8) a