Unit 02: Counting, Probability, and Probability Distributions

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David T. Bourgeois, PhD; Bharatendra K. Rai, PhD. Business Statistics. The Saylor Academy, http://www.saylor.org/courses/bus204/

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1. Unit 02: Counting, Probability, and Probability Distributions

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4. Chapter: Unit 02: Counting, Probability, and Probability Distributions

1. Unit 02: Counting, Probability, and Probability Distributions Questions

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4.1.1. 25% of undergraduates with a business major in a class of 200 are p...

Author: David Bourgeois

25% of undergraduates with a business major in a class of 200 are planning to go to graduate school to get their MBAs. What is the average of this binomial distribution?

Please choose only one answer:

- 0.25
- 50
- 100
- 75

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4.1.2. 25% of undergraduates with a business major in a class of 200 are p...

Author: David Bourgeois

25% of undergraduates with a business major in a class of 200 are planning to go to graduate school to get their MBAs. What is the standard deviation of this binomial distribution?

Please choose only one answer:

- 6.1
- 50
- 100
- none of the above

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4.1.3. A playlist on your Mp3 player has 10 songs. You can listen to the s...

Author: David Bourgeois

A playlist on your Mp3 player has 10 songs. You can listen to the songs in how many different orders?

Please choose only one answer:

- 3,628,800
- 10
- 11
- 500,000

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4.1.4. At a computer manufacturing company, five computers are sent for fi...

Author: David Bourgeois

At a computer manufacturing company, five computers are sent for final inspection. At the final inspection, a computer may pass or fail based on the criteria used for preforming the inspection. What is the number of all possible outcomes that may be observed at the final inspection of these five computers?

Please choose only one answer:

- 16
- 8
- 2
- 32

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4.1.5. Complete the following sentence. A random variable representing the...

Author: David Bourgeois

Complete the following sentence. A random variable representing the speed of a car is a:

Please choose only one answer:

- continuous random variable.
- discrete random variable.
- constant random variable.
- discrete or continuous random variable.

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4.1.6. Complete the following sentence. A random variable representing the...

Author: David Bourgeois

Complete the following sentence. A random variable representing the width of a table in centimeters can be modeled using:

Please choose only one answer:

- continuous distribution.
- discrete distribution.
- constant distribution.
- discrete or continuous distribution.

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4.1.7. Complete the following sentence. A random variable representing the...

Author: David Bourgeois

Complete the following sentence. A random variable representing the number of defects on the surface of a table can be modeled using:

Please choose only one answer:

- exponential distribution.
- normal distribution.
- binomial distribution.
- Poisson distribution.

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4.1.8. Complete the following sentence. For a valid probability distributi...

Author: David Bourgeois

Complete the following sentence. For a valid probability distribution, the total probability:

Please choose only one answer:

- must be less than one.
- may or may not be less than one.
- must be greater than one.
- must be one.

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4.1.9. Complete the following sentence. Probability always lies between:

Author: David Bourgeois

Complete the following sentence. Probability always lies between:

Please choose only one answer:

- 0 and 1.
- -1 and +1.
- 0.5 and 1.
- 0 and 0.5.

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4.1.10. Complete the following sentence. The number of computers sold per d...

Author: David Bourgeois

Complete the following sentence. The number of computers sold per day at a store represents a:

Please choose only one answer:

- continuous random variable.
- discrete random variable.
- constant random variable.
- discrete or continuous random variable.

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4.1.11. Complete the following sentence. The number of defective items foun...

Author: David Bourgeois

Complete the following sentence. The number of defective items found after a final inspection can be modeled using:

Please choose only one answer:

- exponential distribution.
- normal distribution.
- Poisson distribution.
- binomial distribution.

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4.1.12. Consider a random variable that takes values 1, 2, and 3 with proba...

Author: David Bourgeois

Consider a random variable that takes values 1, 2, and 3 with probabilities 0.5, 0.3, and 0.2, respectively. Find the expected value.

Please choose only one answer:

- 1.7
- 2.3
- 3.5
- 4.8

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4.1.13. Consider that seven students go for an interview. What Excel functi...

Author: David Bourgeois

Consider that seven students go for an interview. What Excel function can be used to obtain the number of ways exactly three students are SUCCESSFUL out of all possible outcomes?

Please choose only one answer:

- =COMBIN(7,10)
- =COMBIN(3,10)
- =COMBIN(3,7)
- =COMBIN(7,3)

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4.1.14. Consider that seven students go for an interview. How many ways can...

Author: David Bourgeois

Consider that seven students go for an interview. How many ways can exactly three students be SUCCESSFUL out of all possible outcomes?

Please choose only one answer:

- 25
- 35
- 45
- 55

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4.1.15. If a coin is tossed 1,000 times, the number of times one observes a...

Author: David Bourgeois

If a coin is tossed 1,000 times, the number of times one observes a TAIL is likely to approach what percent?

Please choose only one answer:

- 10%
- 50%
- 90%
- 95%

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4.1.16. In a binomial distribution, mean is given by which of the following?

Author: David Bourgeois

In a binomial distribution, mean is given by which of the following?

Please choose only one answer:

- np
- p
- n
- np(1-p)

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4.1.17. In a binomial distribution, variance is given by which of the follo...

Author: David Bourgeois

In a binomial distribution, variance is given by which of the following?

Please choose only one answer:

- np
- p
- n
- np(1-p)

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4.1.18. In a binomial experiment if n = 15 and p = 0.6, what excel function...

Author: David Bourgeois

In a binomial experiment if n = 15 and p = 0.6, what excel function can be used to calculate P(X ? 10)?

Please choose only one answer:

- =1-BINOMDIST(10,15,0.6,TRUE)
- =BINOMDIST(10,15,0.6,TRUE)
- =1+BINOMDIST(10,15,0.6,TRUE)
- =BINOMDIST(10,15,0.6,FALSE)

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4.1.19. In a binomial experiment, if n = 15 and p = 0.6, calculate P(X = 3).

Author: David Bourgeois

In a binomial experiment, if n = 15 and p = 0.6, calculate P(X = 3).

Please choose only one answer:

- 0.4512
- 0.0127
- 0.0017
- 0.9976

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4.1.20. In a binomial experiment, if n = 15 and p = 0.6, calculate P(X ? 10).

Author: David Bourgeois

In a binomial experiment, if n = 15 and p = 0.6, calculate P(X ? 10).

Please choose only one answer:

- 0.7827
- 0.0127
- 0.0017
- 0.9976

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4.1.21. In a binomial experiment, if n = 15 and p = 0.6, calculate P(X ? 7).

Author: David Bourgeois

In a binomial experiment, if n = 15 and p = 0.6, calculate P(X ? 7).

Please choose only one answer:

- 0.782
- 0.012
- 0.905
- 0.997

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4.1.22. In a binomial experiment, if n = 15 and p = 0.6, calculate mean or ...

Author: David Bourgeois

In a binomial experiment, if n = 15 and p = 0.6, calculate mean or the expected value.

Please choose only one answer:

- 10
- 9
- 8
- 7

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4.1.23. In a binomial experiment, if n = 15 and p = 0.6, calculate variance.

Author: David Bourgeois

In a binomial experiment, if n = 15 and p = 0.6, calculate variance.

Please choose only one answer:

- 0.6
- 1.6
- 2.6
- 3.6

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4.1.24. In a binomial experiment, if n = 15 and p = 0.6, calculate standard...

Author: David Bourgeois

In a binomial experiment, if n = 15 and p = 0.6, calculate standard deviation.

Please choose only one answer:

- 1.981
- 0.238
- 1.897
- 0.023

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4.1.25. In a binomial experiment, if n = 15 and p = 0.6, what Excel functio...

Author: David Bourgeois

In a binomial experiment, if n = 15 and p = 0.6, what Excel function can be used to calculate P(X = 3)?

Please choose only one answer:

- =1-BINOMDIST(3,15,0.6,FALSE)
- =BINOMDIST(3,15,0.6,TRUE)
- =1+BINOMDIST(3,15,0.6,FALSE)
- =BINOMDIST(3,15,0.6,FALSE)

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4.1.26. In a binomial experiment, if n = 15 and p = 0.6, what Excel functio...

Author: David Bourgeois

In a binomial experiment, if n = 15 and p = 0.6, what Excel function can be used to calculate P(X ? 7)?

Please choose only one answer:

- =1-BINOMDIST(6,15,0.6,TRUE)
- =BINOMDIST(7,15,0.6,TRUE)
- =1+ BINOMDIST(6,15,0.6,TRUE)
- = BINOMDIST(6,15,0.6,TRUE)

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4.1.27. In an experiment, three coins are tossed. How many ways can exactly...

Author: David Bourgeois

In an experiment, three coins are tossed. How many ways can exactly two HEADS be observed out of all possible outcomes?

Please choose only one answer:

- 1
- 2
- 3
- 4

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4.1.28. In an experiment, three coins are tossed. What Excel function can b...

Author: David Bourgeois

In an experiment, three coins are tossed. What Excel function can be used to obtain the number of ways exactly two HEADS are observed out of all possible outcomes?

Please choose only one answer:

- =COMBIN(3,2)
- =COMBIN(2,3)
- =COMBIN(8,2)
- =COMBIN(2,8)

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4.1.29. In an ISO 9000 company, there is a team of 10 internal quality audi...

Author: David Bourgeois

In an ISO 9000 company, there is a team of 10 internal quality auditors. The number of auditors assigned to conduct the audit may vary from none to all 10. What is the number of all possible ways in which these 10 auditors may or may not be assigned to audit a department?

Please choose only one answer:

- 1024
- 20
- 2048
- 10

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4.1.30. The random variable x is the number of occurrences of an event over...

Author: David Bourgeois

The random variable x is the number of occurrences of an event over an interval of five minutes. It can be assumed that the probability of an occurrence is the same in any two time periods of an equal length. It is known that the mean number of occurrences in five minutes is 4.1. What is the appropriate probability distribution to use in this situation?

Please choose only one answer:

- Binomial distribution
- Normal distribution
- Poisson distribution
- Continuous distribution

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Question: The random variable x is the number of David Bourgeois Saylor Business

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4.1.31. True or False. In a binomial distribution, the probability of succe...

Author: David Bourgeois

True or False. In a binomial distribution, the probability of success remains the same from trial to trial.

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:
Question: True or False. In a binomial distribution David Bourgeois @The Business

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4.1.32. True or False: A random variable representing the number of defects...

Author: David Bourgeois

True or False: A random variable representing the number of defects is usually more informative than a random variable that captures the number of defective items.

Please choose only one answer:

- True
- False

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4.1.33. What are the number of values of the possible speed between 60 and ...

Author: David Bourgeois

What are the number of values of the possible speed between 60 and 61 miles per hour?

Please choose only one answer:

- 0
- 10
- 100
- Infinite

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4.1.34. What is the number of experimental outcomes in a toss of four coins?

Author: David Bourgeois

What is the number of experimental outcomes in a toss of four coins?

Please choose only one answer:

- 8
- 16
- 2
- 4

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Question: What is the number of experimental outcomes David Bourgeois Saylor

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4.1.35. What is the probability of getting an ACE when a card is drawn from...

Author: David Bourgeois

What is the probability of getting an ACE when a card is drawn from a deck of cards?

Please choose only one answer:

- 1/52
- 2/52
- 3/52
- 4/52

Check the answer of this question online at QuizOver.com:
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4.1.36. What is the value of 0!?

Author: David Bourgeois

What is the value of 0!?

Please choose only one answer:

- -1
- 0
- 1
- Not defined

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Question: What is the value of 0 David Bourgeois Saylor Academy Business Quest

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4.1.37. What is the value of 5!?

Author: David Bourgeois

What is the value of 5!?

Please choose only one answer:

- 25
- 120
- 5
- 500

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4.1.38. When dealing with the number of customers walking into a Wal-Mart s...

Author: David Bourgeois

When dealing with the number of customers walking into a Wal-Mart store between 10 am and 11 am, what is the appropriate probability distribution to use?

Please choose only one answer:

- Binomial distribution
- Normal distribution
- Poisson distribution
- Normal distribution

Check the answer of this question online at QuizOver.com:
Question: When dealing with the number of customers David Bourgeois Saylor

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4.1.39. When dealing with the time interval between successive customers wa...

Author: David Bourgeois

When dealing with the time interval between successive customers walking into a Wal-Mart store between 10 am and 11 am, what is the appropriate probability distribution to use?

Please choose only one answer:

- Binomial distribution
- Discrete distribution
- Poisson distribution
- None of these answers

Check the answer of this question online at QuizOver.com:
Question: When dealing with the time interval between David Bourgeois Saylor

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4.1.40. When rolling a die, what is the probability of getting a 3?

Author: David Bourgeois

When rolling a die, what is the probability of getting a 3?

Please choose only one answer:

- 6/3
- 3/6
- 1/6
- 1/3

Check the answer of this question online at QuizOver.com:
Question: When rolling a die what is the probability David Bourgeois Saylor

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