

Unit 03: The Normal Distribution

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1. Unit 03: The Normal Distribution

4. Chapter: Unit 03: The Normal Distribution

1. Unit 03: The Normal Distribution Questions

4.1.1. A sample of graduating students from a college has an average of \$5...

Author: David Bourgeois

A sample of graduating students from a college has an average of \$50,000 starting salaries with a standard deviation of \$3,000. Assuming a normal distribution, what is the probability of a student earning less than \$45,000?

Please choose only one answer:

- 0.0478
- 2.645
- 0.675
- 0.0011

Check the answer of this question online at QuizOver.com:

Question: [A sample of graduating students from a David Bourgeois @The Saylor](#)

Flashcards:

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4.1.2. A sample of graduating students from a college has an average of \$5...

Author: David Bourgeois

A sample of graduating students from a college has an average of \$50,000 starting salaries with a standard deviation of \$3,000. Assuming a normal distribution, what is the probability of a student earning between \$40,000 and \$60,000?

Please choose only one answer:

- 0.5
- 0.0001
- 0.9991
- 1.0

Check the answer of this question online at QuizOver.com:

Question: [A sample of graduating students from a David Bourgeois @The Saylor](#)

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4.1.3. A sample of graduating students from a college has an average of \$5...

Author: David Bourgeois

A sample of graduating students from a college has an average of \$50,000 starting salaries with a standard deviation of \$3,000. Assuming a normal distribution, what is the probability of a student earning more than \$55,000?

Please choose only one answer:

- 0.0276
- 0.6451
- 0.0478
- 0.0011

Check the answer of this question online at QuizOver.com:

Question: [A sample of graduating students from a David Bourgeois @The Saylor](#)

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4.1.4. A sample of graduating students from a college has an average of \$5...

Author: David Bourgeois

A sample of graduating students from a college has an average of \$50,000 starting salaries with a standard deviation of \$3,000. Assuming a normal distribution, what salary is expected to be earned by up to 70% of the students?

Please choose only one answer:

- \$52,573.20
- \$53,573.20
- \$51,573.20
- \$50,573.20

Check the answer of this question online at QuizOver.com:

Question: [A sample of graduating students from a David Bourgeois @The Saylor](#)

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Interactive Question:

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4.1.5. A sample of graduating students from a college has an average of \$5...

Author: David Bourgeois

A sample of graduating students from a college has an average of \$50,000 starting salaries with a standard deviation of \$3,000. Assuming a normal distribution, what salary is expected to be earned by up to 70% of the students?

Please choose only one answer:

- \$50,000
- \$42,000
- \$8,000
- \$3,000

Check the answer of this question online at QuizOver.com:

Question: [A sample of graduating students from a David Bourgeois @The Saylor](#)

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4.1.6. Assume that the average number of days an account receivable is on ...

Author: David Bourgeois

Assume that the average number of days an account receivable is on the books until funds are received is 24 days with a standard deviation of 4 days. What is the probability that an account receivable is not closed before 30 days?

Please choose only one answer:

- 0.0668
- 0.6451
- 0.0478
- 0.0011

Check the answer of this question online at QuizOver.com:

Question: [Assume that the average number of days an David Bourgeois Saylor](#)

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4.1.7. Assume that the average number of days an account receivable is on ...

Author: David Bourgeois

Assume that the average number of days an account receivable is on the books until funds are received is 24 days with a standard deviation of 4 days. How many days does it take until 20% of the accounts receivables are booked?

Please choose only one answer:

- 14.2
- 29.3
- 4.1
- 20.6

Check the answer of this question online at QuizOver.com:

Question: [Assume that the average number of days an David Bourgeois Saylor](#)

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4.1.8. Calculate $P(-1 < Z < 2.5)$.

Author: David Bourgeois

Calculate $P(-1 < Z < 2.5)$.

Please choose only one answer:

- 0.0668
- 0.8351
- 0.9332
- 0.0107

Check the answer of this question online at QuizOver.com:

Question: [Calculate P -1 lt Z lt 2.5 . David Bourgeois @The Saylor Academy](#)

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4.1.9. Calculate $P(Z < -2.3)$.

Author: David Bourgeois

Calculate $P(Z < -2.3)$.

Please choose only one answer:

- 0.0668
- 0.8686
- 0.9332
- 0.0107

Check the answer of this question online at QuizOver.com:

Question: [Calculate P Z lt -2.3 . David Bourgeois @The Saylor Academy Business](#)

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4.1.10. Calculate $P(Z < 1.5)$.

Author: David Bourgeois

Calculate $P(Z < 1.5)$.

Please choose only one answer:

- 0.0075
- 0.8686
- 0.9332
- 1.96

Check the answer of this question online at QuizOver.com:

Question: [Calculate P Z lt 1.5 . David Bourgeois @The Saylor Academy Business](#)

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4.1.11. Calculate z when area between 0 and z is 0.475.

Author: David Bourgeois

Calculate z when area between 0 and z is 0.475.

Please choose only one answer:

- 2.56
- 1.23
- 1.03
- 1.96

Check the answer of this question online at QuizOver.com:

Question: [Calculate z when area between 0 and z is David Bourgeois @The](#)

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4.1.12. Calculate z when $P(Z > z) = 0.10$.

Author: David Bourgeois

Calculate z when $P(Z > z) = 0.10$.

Please choose only one answer:

- 1.962
- 2.645
- 1.282
- 1.172

Check the answer of this question online at QuizOver.com:

Question: [Calculate z when P Z gt z 0.10. David Bourgeois @The Saylor Academy](#)

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4.1.13. Calculate z when $P(Z < z) = 0.25$.

Author: David Bourgeois

Calculate z when $P(Z < z) = 0.25$.

Please choose only one answer:

- 0.3546
- -0.3546
- -0.6745
- 0.6745

Check the answer of this question online at QuizOver.com:

Question: [Calculate z when P Z lt z 0.25. David Bourgeois @The Saylor Academy](#)

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4.1.14. Calculate z when $P(Z < z) = 0.95$.

Author: David Bourgeois

Calculate z when $P(Z < z) = 0.95$.

Please choose only one answer:

- 1.645
- 2.645
- 3.645
- 4.645

Check the answer of this question online at QuizOver.com:

Question: [Calculate z when P Z lt z 0.95. David Bourgeois @The Saylor Academy](#)

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4.1.15. Complete the following sentence. A normal distribution with a highe...

Author: David Bourgeois

Complete the following sentence. A normal distribution with a higher standard deviation is:

Please choose only one answer:

- taller than one with a lower standard deviation.
- shorter than one with a lower standard deviation.
- of same height compared to one with a lower standard deviation.
- wider than one with a lower standard deviation.

Check the answer of this question online at QuizOver.com:

Question: [Complete the following sentence. A normal David Bourgeois Saylor](#)

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4.1.16. Complete the following sentence. As per the central limit theorem, ...

Author: David Bourgeois

Complete the following sentence. As per the central limit theorem, a distribution of averages based on sample sizes of more than 30 has a shape that can be approximated by:

Please choose only one answer:

- binomial distribution.
- exponential distribution.
- normal distribution.
- uniform distribution.

Check the answer of this question online at QuizOver.com:

Question: [Complete the following sentence. As per David Bourgeois Saylor Business](#)

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4.1.17. Complete the following sentence. As per the central limit theorem, ...

Author: David Bourgeois

Complete the following sentence. As per the central limit theorem, as sample size increases the standard error:

Please choose only one answer:

- also increases.
- remains the same.
- may increase or decrease depending on the situation.
- decreases.

Check the answer of this question online at QuizOver.com:

Question: [Complete the following sentence. As per David Bourgeois Saylor Business](#)

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4.1.18. Complete the following sentence. For the normal distribution, popul...

Author: David Bourgeois

Complete the following sentence. For the normal distribution, population standard deviation is a:

Please choose only one answer:

- sample statistics.
- population parameter.
- population statistics.
- sample parameter.

Check the answer of this question online at QuizOver.com:

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4.1.19. Complete the following sentence. For the normal distribution, sampl...

Author: David Bourgeois

Complete the following sentence. For the normal distribution, sample mean is a:

Please choose only one answer:

- sample statistics.
- population parameter.
- population statistics.
- sample parameter.

Check the answer of this question online at QuizOver.com:

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4.1.20. Complete the following sentence. Variability of the distribution of...

Author: David Bourgeois

Complete the following sentence. Variability of the distribution of sample averages is captured by:

Please choose only one answer:

- mean.
- standard error.
- standard deviation.
- sample size.

Check the answer of this question online at QuizOver.com:

Question: [Complete the following sentence. Variability David Saylor Academy](#)

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4.1.21. For a normal distribution, what is the area to the left of the mean?

Author: David Bourgeois

For a normal distribution, what is the area to the left of the mean?

Please choose only one answer:

- -0.5
- 0.5
- 1.0
- 0

Check the answer of this question online at QuizOver.com:

Question: [For a normal distribution what is the area David Bourgeois Saylor](#)

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4.1.22. The central limit theorem highlights the importance of which distri...

Author: David Bourgeois

The central limit theorem highlights the importance of which distribution in statistics?

Please choose only one answer:

- Binomial
- Poisson
- Normal
- Exponential

Check the answer of this question online at QuizOver.com:

Question: [The central limit theorem highlights the David Bourgeois Saylor Business](#)

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4.1.23. The mean annual cost of automobile insurance is \$939 with a standar...

Author: David Bourgeois

The mean annual cost of automobile insurance is \$939 with a standard deviation of \$245. What Excel function can be used to obtain the probability of the annual cost of automobile insurance less than \$1000?

Please choose only one answer:

- =NORMDIST(1000,939,245)
- =NORMDIST(1000,245,939,TRUE)
- =NORMDIST(1000,939,245,TRUE)
- =NORMDIST(1000,939,245,FALSE)

Check the answer of this question online at QuizOver.com:

Question: [The mean annual cost of automobile insurance David Saylor Academy](#)

Flashcards:

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4.1.24. The mean annual cost of automobile insurance is \$939 with a standar...

Author: David Bourgeois

The mean annual cost of automobile insurance is \$939 with a standard deviation of \$245. What is the probability of the annual cost of automobile insurance being less than \$1,000?

Please choose only one answer:

- 0.598
- 0.221
- 0.6565
- 0.7856

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The mean annual cost of automobile insurance David Saylor Academy](#)

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4.1.25. The mean annual cost of automobile insurance is \$939 with a standar...

Author: David Bourgeois

The mean annual cost of automobile insurance is \$939 with a standard deviation of \$245. What is the probability of the annual cost of automobile insurance being greater than \$1,200?

Please choose only one answer:

- 0.143
- 0.221
- 0.656
- 0.562

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The mean annual cost of automobile insurance David Saylor Academy](#)

Flashcards:

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Interactive Question:

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4.1.26. The mean annual cost of automobile insurance is \$939 with a standar...

Author: David Bourgeois

The mean annual cost of automobile insurance is \$939 with a standard deviation of \$245. What is the probability of the annual cost of automobile insurance being greater than \$939?

Please choose only one answer:

- 0.3
- 0.4
- 0.5
- 0.6

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The mean annual cost of automobile insurance David Saylor Academy](#)

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Interactive Question:

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4.1.27. The mean annual cost of automobile insurance is \$939 with a standar...

Author: David Bourgeois

The mean annual cost of automobile insurance is \$939 with a standard deviation of \$245. What is the annual cost of automobile insurance for less than 75% of customers?

Please choose only one answer:

- \$1,523.22
- \$500.98
- \$1,200.02
- \$1,104.25

Check the answer of this question online at QuizOver.com:

Question: [The mean annual cost of automobile insurance David Saylor Academy](#)

Flashcards:

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Interactive Question:

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4.1.28. The mean annual cost of automobile insurance is \$939 with a standar...

Author: David Bourgeois

The mean annual cost of automobile insurance is \$939 with a standard deviation of \$245. What is the annual cost of automobile insurance for less than 10% of customers?

Please choose only one answer:

- \$625.02
- \$500.98
- \$120.02
- \$104.25

Check the answer of this question online at QuizOver.com:

Question: [The mean annual cost of automobile insurance David Saylor Academy](#)

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4.1.29. The weight of football players is normally distributed with a mean ...

Author: David Bourgeois

The weight of football players is normally distributed with a mean of 205 pounds and a standard deviation of 27 pounds. Find the probability of a player weighing less than 275 pounds.

Please choose only one answer:

- 0.9952
- 0.0952
- 0.7823
- 0.9766

Check the answer of this question online at QuizOver.com:

Question: [The weight of football players is normally David Bourgeois Saylor](#)

Flashcards:

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4.1.30. The weight of football players is normally distributed with a mean ...

Author: David Bourgeois

The weight of football players is normally distributed with a mean of 205 pounds and a standard deviation of 27 pounds. Find the probability of a player weighing between 250 and 300 pounds.

Please choose only one answer:

- 0.9952
- 0.0952
- 0.7823
- 0.0476

Check the answer of this question online at QuizOver.com:

Question: [The weight of football players is normally David Bourgeois Saylor](#)

Flashcards:

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4.1.31. The weight of football players is normally distributed with a mean ...

Author: David Bourgeois

The weight of football players is normally distributed with a mean of 205 pounds and a standard deviation of 27 pounds. Find the probability of a player weighing over 300 pounds.

Please choose only one answer:

- 0.9952
- 0.0002
- 0.7823
- 0.0476

Check the answer of this question online at QuizOver.com:

Question: [The weight of football players is normally David Bourgeois Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/the-weight-of-football-players-is-normally-david-bourgeois-say-8029445?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/the-weight-of-football-players-is-normally-david-bourgeois-say-8029445?pdf=3044>

4.1.32. The weight of football players is normally distributed with a mean ...

Author: David Bourgeois

The weight of football players is normally distributed with a mean of 205 pounds and a standard deviation of 27 pounds. What percentages of players are expected to weigh over 300 pounds?

Please choose only one answer:

- 2.0%
- 0.0002%
- 0.20%
- 0.02%

Check the answer of this question online at QuizOver.com:

Question: [The weight of football players is normally David Bourgeois Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/the-weight-of-football-players-is-normally-david-bourgeois-say-8029560?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/the-weight-of-football-players-is-normally-david-bourgeois-say-8029560?pdf=3044>

4.1.33. The weight of items produced by a machine is normally distributed w...

Author: David Bourgeois

The weight of items produced by a machine is normally distributed with a mean of 28 ounces and a standard deviation of 6 ounces. What is the probability that a randomly selected item will weigh more than 17 ounces?

Please choose only one answer:

- 0.9666
- 0.0002
- 0.7823
- 0.0476

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The weight of items produced by a machine David Bourgeois Saylor](http://www.quizover.com/question/the-weight-of-items-produced-by-a-machine-david-bourgeois-saylor?pdf=3044)

Flashcards:

<http://www.quizover.com/flashcards/the-weight-of-items-produced-by-a-machine-david-bourgeois-saylor?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/the-weight-of-items-produced-by-a-machine-david-bourgeois-saylor?pdf=3044>

4.1.34. The weight of items produced by a machine is normally distributed w...

Author: David Bourgeois

The weight of items produced by a machine is normally distributed with a mean of 28 ounces and a standard deviation of 6 ounces. What percentages of items are expected to weigh more than 17 ounces?

Please choose only one answer:

- 0.9666%
- 9.666%
- 0.09666%
- 96.66%

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The weight of items produced by a machine David Bourgeois Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/the-weight-of-items-produced-by-a-machine-david-bourgeois-sayl-8029793?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/the-weight-of-items-produced-by-a-machine-david-bourgeois-sayl-8029793?pdf=3044>

4.1.35. To calculate standard error, one requires which of the following?

Author: David Bourgeois

To calculate standard error, one requires which of the following?

Please choose only one answer:

- Sample size
- Probability
- Mean
- Mode

Check the answer of this question online at QuizOver.com:

Question: [To calculate standard error one requires David Bourgeois @The](#)

Flashcards:

<http://www.quizover.com/flashcards/to-calculate-standard-error-one-requires-david-bourgeois-the?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/to-calculate-standard-error-one-requires-david-bourgeois-the?pdf=3044>

4.1.36. What is the mean of a standard normal distribution?

Author: David Bourgeois

What is the mean of a standard normal distribution?

Please choose only one answer:

- 0
- 1
- 0.5
- 2.0

Check the answer of this question online at QuizOver.com:

Question: [What is the mean of a standard normal David Bourgeois Saylor Academy](#)

Flashcards:

<http://www.quizover.com/flashcards/what-is-the-mean-of-a-standard-normal-david-bourgeois-saylor-academy?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/what-is-the-mean-of-a-standard-normal-david-bourgeois-saylor-academy?pdf=3044>

4.1.37. What is the standard deviation of a standard normal distribution?

Author: David Bourgeois

What is the standard deviation of a standard normal distribution?

Please choose only one answer:

- 0
- 1
- 0.5
- 2.0

Check the answer of this question online at QuizOver.com:

Question: [What is the standard deviation of a standard David Saylor Academy](#)

Flashcards:

<http://www.quizover.com/flashcards/what-is-the-standard-deviation-of-a-standard-david-saylor-academy?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/what-is-the-standard-deviation-of-a-standard-david-saylor-academy?pdf=3044>

4.1.38. Which of the following best characterizes a normal distribution?

Author: David Bourgeois

Which of the following best characterizes a normal distribution?

Please choose only one answer:

- A normal distribution is skewed to the left.
- A normal distribution is skewed to the right.
- A normal distribution is symmetric.
- A normal distribution is uniform.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following best characterizes David Bourgeois Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-best-characterizes-david-bourgeois-saylor?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/which-of-the-following-best-characterizes-david-bourgeois-saylor?pdf=3044>

4.1.39. Which of the following distributions is a continuous probability di...

Author: David Bourgeois

Which of the following distributions is a continuous probability distribution?

Please choose only one answer:

- Binomial
- Hypergeometric
- Poisson
- Normal

Check the answer of this question online at QuizOver.com:

Question: [Which of the following distributions is David Bourgeois Saylor Business](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-distributions-is-david-bourgeois-saylor-busines?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/which-of-the-following-distributions-is-david-bourgeois-saylor-busines?pdf=3044>

4.1.40. Which of the following statements comparing standard error and stan...

Author: David Bourgeois

Which of the following statements comparing standard error and standard deviation is true?

Please choose only one answer:

- Standard error and standard deviation are always same.
- Standard error and standard deviation are different.
- Standard error and standard deviation are negative values.
- Standard error and standard deviation are opposite.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements comparing David Bourgeois Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-statements-comparing-david-bourgeois-saylor?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/which-of-the-following-statements-comparing-david-bourgeois-saylor?pdf=3044>