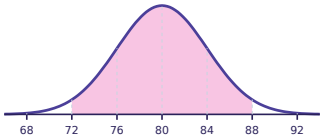
Normal Distribution & z-Scores · 1

The daily commute times (minutes) are normally distributed with mean 27 and standard deviation 5. Find the z-score of a commute of 37.

Normal Distribution & z-Scores · 2

The exam scores are normally distributed with mean 80 and standard deviation 4. Use the 68-95-99.7 rule: what percent of the data lies between 72 and 88?



Normal Distribution & z-Scores · 3

The battery lifetimes (hours) are normally distributed with mean 430 and standard deviation 50. Find the z-score of a lifetime of 330.

Normal Distribution & z-Scores · 4

The daily commute times (minutes) are normally distributed with mean 36 and standard deviation 4. Find the z-score of a commute of 44.

Normal Distribution & z-Scores · 5

The adult heights (cm) are normally distributed with mean 175 and standard deviation 4. Find the z-score of a height of 179.

Normal Distribution & z-Scores · 6

The adult heights (cm) are normally distributed with mean 164 and standard deviation 4. Find the z-score of a height of 156.

Normal Distribution & z-Scores · 7

The daily commute times (minutes) are normally distributed with mean 35 and standard deviation 6. Find the z-score of a commute of 29.

Normal Distribution & z-Scores · 8

The battery lifetimes (hours) are normally distributed with mean 540 and standard deviation 40. Find the z-score of a lifetime of 500.

Normal Distribution & z-Scores · 2

ANSWER

95

Normal Distribution & z-Scores · 1

ANSWER

2

Normal Distribution & z-Scores · 4

ANSWER

2

Normal Distribution & z-Scores · 3

ANSWER

-2

Normal Distribution & z-Scores · 6

ANSWER

-2

Normal Distribution & z-Scores · 5

ANSWER

1

Normal Distribution & z-Scores · 8

ANSWER

-1

Normal Distribution & z-Scores · 7

ANSWER

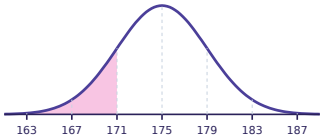
-1

Normal Distribution & z-Scores · 9

The adult heights (cm) are normally distributed with mean 176 and standard deviation 4. Find the z-score of a height of 184.

Normal Distribution & z-Scores · 10

The adult heights (cm) are normally distributed with mean 175 and standard deviation 4. Use the 68-95-99.7 rule: what percent of the data lies below 171?



Normal Distribution & z-Scores · 11

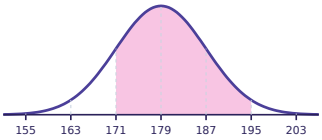
The battery lifetimes (hours) are normally distributed with mean 540 and standard deviation 50. Find the z-score of a lifetime of 490.

Normal Distribution & z-Scores · 12

The daily commute times (minutes) are normally distributed with mean 38 and standard deviation 6. Find the z-score of a commute of 53.

Normal Distribution & z-Scores · 13

The adult heights (cm) are normally distributed with mean 179 and standard deviation 8. Use the 68-95-99.7 rule: what percent of the data lies between 171 and 195?

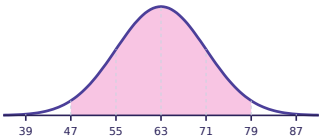


Normal Distribution & z-Scores · 14

The exam scores are normally distributed with mean 70 and standard deviation 6. What value has a z-score of 1?

Normal Distribution & z-Scores · 15

The exam scores are normally distributed with mean 63 and standard deviation 8. Use the 68-95-99.7 rule: what percent of the data lies between 47 and 79?



Normal Distribution & z-Scores · 16

The exam scores are normally distributed with mean 71 and standard deviation 4. What value has a z-score of 2?

Normal Distribution & z-Scores · 10

ANSWER

16

Normal Distribution & z-Scores · 9

ANSWER

2

Normal Distribution & z-Scores · 12

ANSWER

2.5

Normal Distribution & z-Scores · 11

ANSWER

-1

Normal Distribution & z-Scores · 14

ANSWER

76

Normal Distribution & z-Scores · 13

ANSWER

81.5

Normal Distribution & z-Scores · 16

ANSWER

79

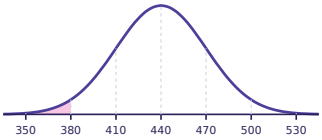
Normal Distribution & z-Scores · 15

ANSWER

95

Normal Distribution & z-Scores · 17

The battery lifetimes (hours) are normally distributed with mean 440 and standard deviation 30. Use the 68-95-99.7 rule: what percent of the data lies below 380?



Normal Distribution & z-Scores · 18

The adult heights (cm) are normally distributed with mean 176 and standard deviation 6. Find the z-score of a height of 164.

Normal Distribution & z-Scores · 19

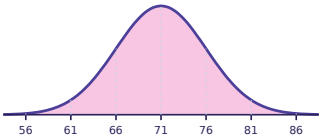
The adult heights (cm) are normally distributed with mean 161 and standard deviation 6. Find the z-score of a height of 155.

Normal Distribution & z-Scores · 20

The exam scores are normally distributed with mean 69 and standard deviation 10. Find the z-score of a score of 79.

Normal Distribution & z-Scores · 21

The exam scores are normally distributed with mean 71 and standard deviation 5. Use the 68-95-99.7 rule: what percent of the data lies between 56 and 86?



Normal Distribution & z-Scores · 22

The daily commute times (minutes) are normally distributed with mean 37 and standard deviation 8. Find the z-score of a commute of 53.

Normal Distribution & z-Scores · 23

The battery lifetimes (hours) are normally distributed with mean 480 and standard deviation 50. Find the z-score of a lifetime of 430.

Normal Distribution & z-Scores · 24

The daily commute times (minutes) are normally distributed with mean 41 and standard deviation 8. Find the z-score of a commute of 25.

Normal Distribution & z-Scores · 18

ANSWER

-2

Normal Distribution & z-Scores · 17

ANSWER

2.5

Normal Distribution & z-Scores · 20

ANSWER

1

Normal Distribution & z-Scores · 19

ANSWER

-1

Normal Distribution & z-Scores · 22

ANSWER

2

Normal Distribution & z-Scores · 21

ANSWER

99.7

Normal Distribution & z-Scores · 24

ANSWER

-2

Normal Distribution & z-Scores · 23

ANSWER

-1