The image features a central white cloud-like shape with a black outline, set against a background of diagonal blue and light blue stripes. Inside the white shape, the text "Normal Distribution Foldable" is written in a large, bold, black, sans-serif font, centered and arranged in three lines.

**Normal
Distribution
Foldable**

Thank you for buying my game!

©Foresta Math

Please stop back to my store and let me know how the game went.

<http://www.teacherspayteachers.com/Store/Foresta-Math>

Facebook:

Pinterest: <https://pinterest.com/forestamath>

Email: forestamath@aol.com

Website: <http://forestamath.com>

Frame by Mercedes Hutchens

<http://www.teacherspayteachers.com/Store/Mercedes-Hutchens>

Instructions

Print or copy page 3 and 4 double sided.

Place the paper so the examples are face down.

Cut along the dotted lines to create flaps.

Flip and fold the flaps inwards.

Glue the foldable into notes or on a piece of construction paper.

Go through the foldable with your students.

Example 1

**What is a
Normal
Distribution
Curve?**

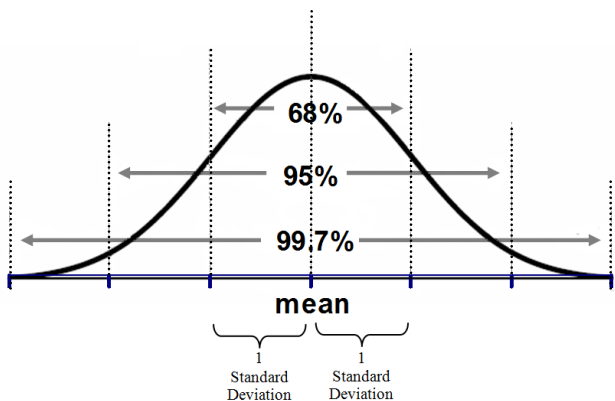
Example 1

Example 2

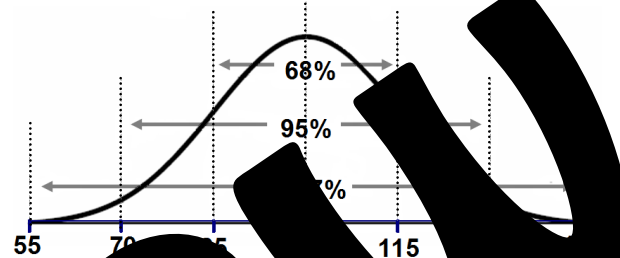
Preview

A normal distribution curve is a bell shaped curve that describes how data behaves around any given mean using a measure of dispersion called standard deviation.

68% of the data will fall within 1 standard deviation of the mean.
 95% of the data will fall within 2 standard deviations of the mean.
 99.7% of the data will fall within 3 standard deviations of the mean.

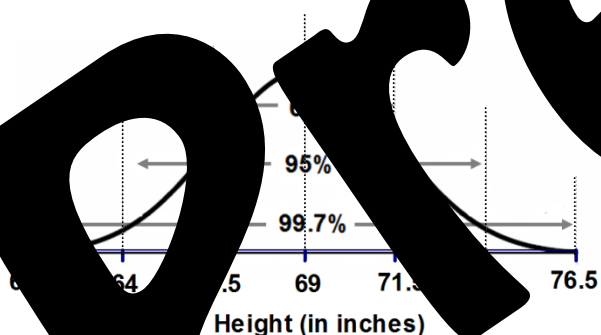


1) The IQ Score of a person can be described with a normal distribution. A graph of the distribution is shown below. Based on the graph, which statement is correct?



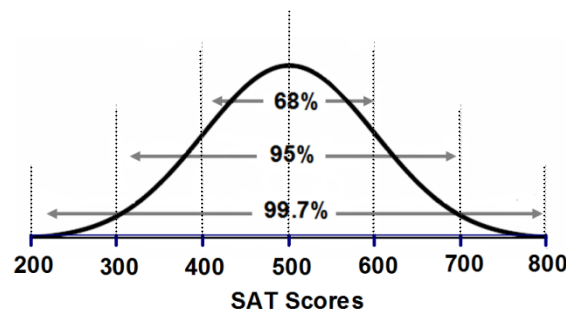
- A) More than one-third of people have IQ's greater than 130?
- B) Most people have IQ's less than 85.
- C) There are more people with IQ's greater than 115 than there are with IQ's greater than 85.
- D) There are as many people with IQ's greater than 130 as there are with IQ's less than 70.

2) The heights of men can be described with a normal distribution. A graph of the distribution is shown below. Which statement about the men's heights is most likely true?



- A) Most men are taller than 74 inches.
- B) More than one-third of the men are shorter than 64 inches.
- C) There are more men taller than 71.5 inches than men there are shorter than 66.5 inches.
- D) The percentage of men that are 69 inches or greater in height is 50%.

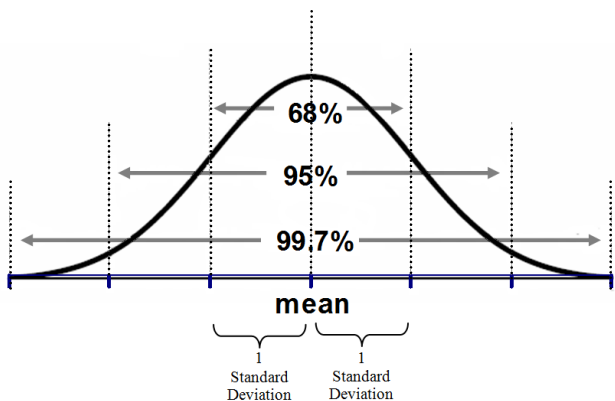
3) The scores of the SAT can be described with a normal distribution. A graph of the distribution is shown below. Which statement about the SAT scores is most likely true?



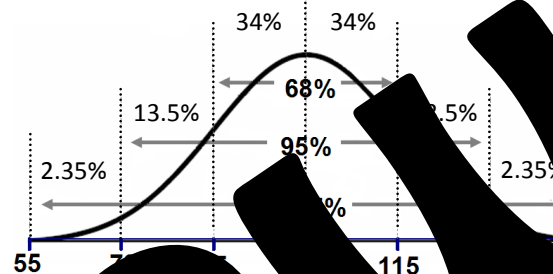
- A. Most scores are between 400 and 500.
- B. There are less scores below a 400 than there are scores above 700.
- C. There are more scores above 600 than there are less than 300.
- D. There are as many scores greater than 700 than there are scores less than 400.

A normal distribution curve is a bell shaped curve that describes how data behaves around any given mean using a measure of dispersion called standard deviation.

68% of the data will fall within 1 standard deviation of the mean.
 95% of the data will fall within 2 standard deviations of the mean.
 99.7% of the data will fall within 3 standard deviations of the mean.

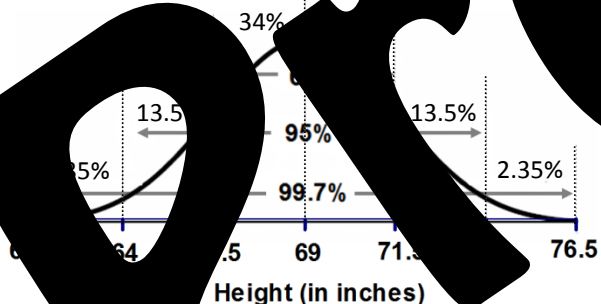


1) The IQ Score of a person can be described with a normal distribution. A graph of the distribution is shown below. Based on the graph, which statement is correct?



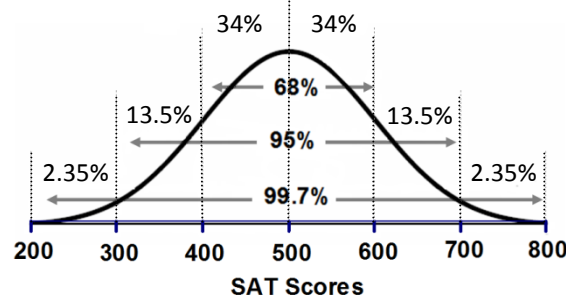
- A) More than one-third of people have IQ's greater than 130?
- B) Most people have IQ's less than 85.
- C) There are more people with IQ's greater than 115 than there are with IQ's greater than 85.
- D) There are as many people with IQ's greater than 130 as there are with IQ's less than 85.

2) The heights of men can be described with a normal distribution. A graph of the distribution is shown below. Which statement about the men's heights is most likely true?



- A) Most men are taller than 74 inches.
- B) More than one-third of the men are shorter than 64 inches.
- C) There are more men taller than 71.5 inches than men there are shorter than 66.5 inches.
- D) The percentage of men that are 69 inches or greater in height is 50%.

3) The scores of the SAT can be described with a normal distribution. A graph of the distribution is shown below. Which statement about the SAT scores is most likely true?



- A. Most scores are between 400 and 500.
- B. There are less scores below a 400 than there are scores above 700.
- C. There are more scores above 600 than there are less than 300.
- D. There are as many scores greater than 700 than there are scores less than 400.