

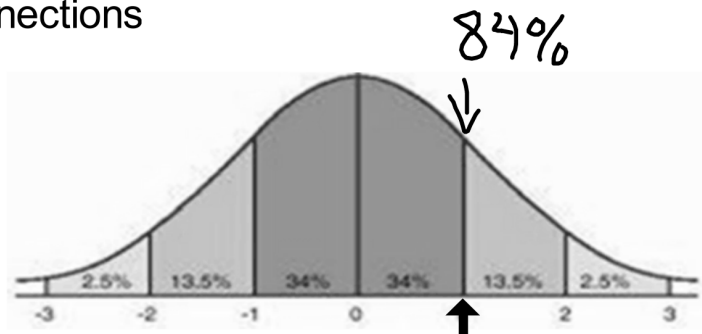
Percentile Rankings

Let's Think

What does it mean to score in the 75th percentile? *You scored better than 75% of people*

So, if Karl takes the SAT and scores in the 92nd percentile, what can be said about his performance?

Connections



What does it mean if we were one standard deviation above the mean on the normal distribution?

Example

The height of females is approximately normally distributed with a mean of 63.7 inches and a standard deviation of 2.5.

Create a normal distribution using this information.

If Baria is 71.2 inches tall, what would be her percentile ranking?

You Try!

The height of males is approximately normally distributed with a mean of 69.1 inches and a standard deviation of 2.6.

Create a normal distribution using this information.

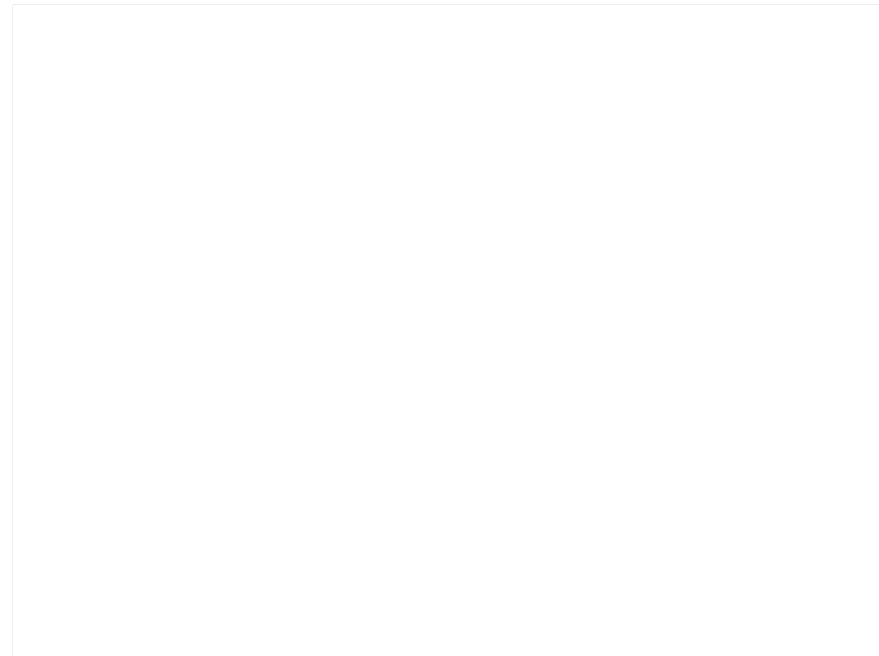
If Brandon is 66.5 inches tall, what would be his percentile ranking?

Example

In an average game of soccer, a player runs approximately 7 miles. Assume that the data is normally distributed with a standard deviation of 1 mile.

Create a normal distribution using this information.

How much farther would a person in the 97.5 percentile have run than someone in the 16th percentile?



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