Date _____

Warm Up

z-Scores

In the United States, men's heights are normally distributed with a mean of 68.9 inches and a standard deviation of 2.8 inches, while women's heights are normally distributed with a mean of 63.5 inches and a standard deviation of 2.5 inches.

Heights are measured for the tallest male and the tallest female in a boot camp class showing that Jim is 76 inches tall and Sally is 70 inches tall. We want to compare Jim's height to Sally's height to see who is relatively taller.

Both data sets, men's heights and women's heights, are normally distributed, but how can we compare data from two different normal distributions?

Who is relatively taller, Jim or Sally for their respective gender? _____
Show the work below to justify your answer.

MAIN IDEAS: List the Main Ideas for Today's Lesson