

Name: _____

Interpreting Standard Deviation Worksheet

- The mean height of adult men is 70" with a standard deviation of 3".
 - Draw a bell curve to represent this situation.
 - 68% of men will be between _____ inches and _____ inches.
 - 95% of men will be between _____ inches and _____ inches.
 - 99.7% of men will be between _____ inches and _____ inches.
- The mean height of adult women is 63.5" with a standard deviation of 2.5".
 - Draw a bell curve to represent this situation.
 - 68% of women will be between _____ inches and _____ inches.
 - 95% of women will be between _____ inches and _____ inches.
 - 99.7% of women will be between _____ inches and _____ inches.
- Use the information for #2 and #3. Jared is 73" tall. Kayla is 68.5" tall. Who is actually "taller" when compared to other people of the same gender? Explain.
- The mean of an IQ test is 100 with a standard deviation of 15.
 - Draw a bell curve to represent this situation.
 - In order to be a member of MENSA, you must score at least 3 standard deviations above the mean. How high must you score to be a member of MENSA?
- You want to know about how many words per minute people can type. You ask 10 adults how fast they can type in words per minute. Here are the results.
25, 30, 37, 37, 42, 45, 45, 46, 50, 60
 - Find the mean of the data.
 - Find the standard deviation of the data.
 - Draw a bell curve representing this situation.
 - Based on this data, if you were to type 60 words per minute, you would type faster than about what percent of the population?
- You are trying find average resting heart rate for an adult woman. You ask 10 women what their resting heart rate is. Here are the results in beats per minute.
59, 63, 65, 69, 70, 70, 72, 73, 78, 79
 - Find the mean.
 - Find the standard deviation.
 - Draw a bell curve to represent this situation.
 - 68% of women will have resting heart rate between _____ bpm and _____ bpm.