

HOW HIGH ARE YOU [AT HOME]?

BY REY BANZAERT



68 PEOPLE ANSWERED

This question was distributed to Meridianites via a poll. 68 people answered my question



My question for meridian academy was; What is the elevation of your house in feet? Participants responded in a number field. The 95% confidence interval can help us narrow down how accurate our data is, by comparing it with itself.

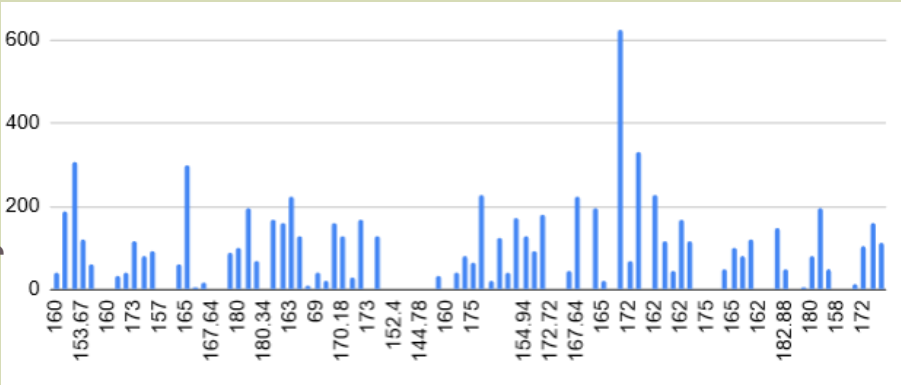
MATH STUFF:

My question for meridian academy was; What is the elevation of your house in feet? Participants responded in a number field. I then calculated the 95% confidence for my data.

Mean: 113,937 $CI = \bar{X} \pm 2 \cdot \frac{\sigma}{\sqrt{n}}$
Len: 70
SD = 99.115 $CI = 113.93 \pm 1.96 \cdot \frac{99.11}{\sqrt{70}}$
 $CI = 113.93 \pm 23.219$



Afterwards, I compared elevation to height. As it turns out, there is no correlation. However, comparing my data to something else allows for further interpretation, to see if it is related to something else



MOST PEOPLE AT MERIDIAN LIVE BETWEEN 90.718 – 137.156 FEET, USING A 95% CONFIDENCE INTERVAL

ANALISYS:

- The average height is roughly 114 feet above sea level
- The highest someone is at home is roughly 625 feet

PROBLEMS & SOLUTIONS:

- Most people used an Iphone to figure out the data, which can be wrong
- Give people altimeters, or let people use accurate sources
- People may have reported something wrong
- Double check answers submitted