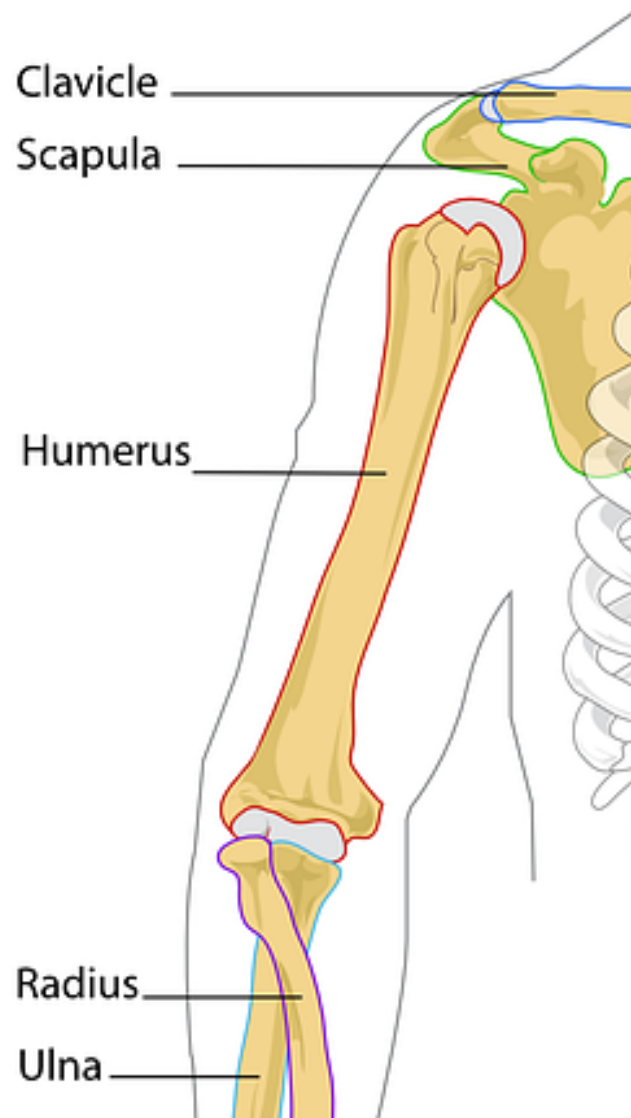


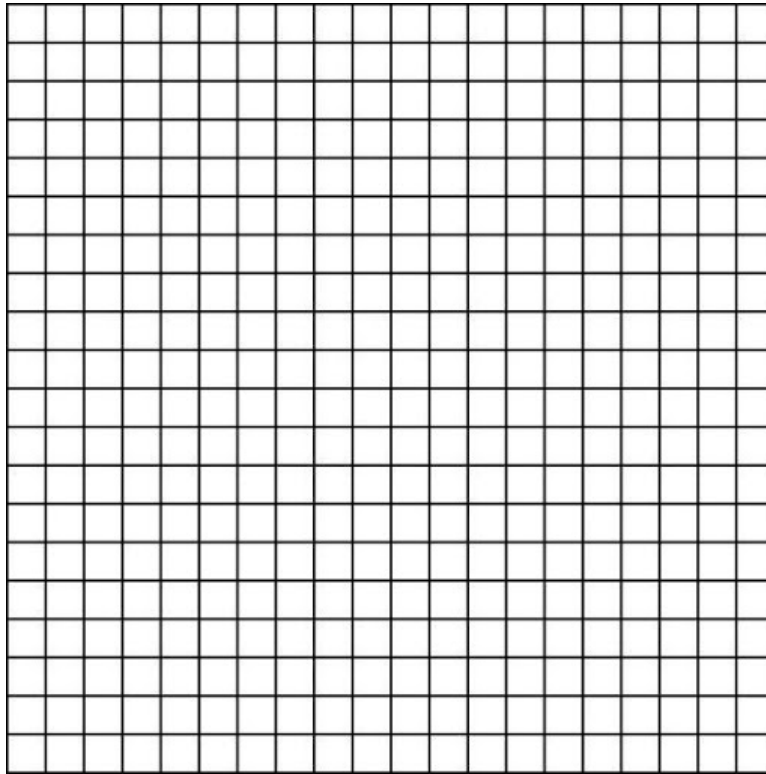
## A Fossil Puzzle

An anthropologist finds a fossilized humerus bone of an ancient human ancestor. The humerus is an arm bone running from the shoulder to the elbow. It is 24 centimeters in length. Collect and use data from your classmates to estimate the height of this ancient human.





Create a scatterplot for the data collected.



Find the best fit equation for your data. Show your work in the space below.

Interpret the slope and y-intercept.

Predict the height for the ancient human.

Based on the residual graph, is your line a good model for the data? Explain your answer.

What is the correlation coefficient for your linear model?

Based on the correlation coefficient, is your model a good fit for the data? Explain your answer.

Do you think using student generated data provides information to successfully predict the height of an ancient human? Explain your answer.

Overall, was your linear model a good fit for the data? Why or why not?