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#Markus Jensen



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Name: Kat Date: _____ Period: _____ Score: 7/8

Chapter 8 Quiz: The LMU

Part B: The data below show the heights of selected basketball players and the average number of minutes they play per game. Answer each of the questions below based on the given data:

height (in inches)	72	73	74	75	76	77	78	79	82
Minutes Played	47	42	40	38	35	32	30	29	25

- Identify the explanatory and response variables. (2 points)
Explanatory: height (in inches) Response: minutes played
- Sketch a scatter plot of the data using your graphing calculator. (2 points)
1) Get data (L1, L2)
2) Set up your stat plot (ON → 1)
3) Turn stat on
- Sketch a residual plot using your graphing calculator. (2 points)
1) STAT → CALC → LinReg (find the equation)
2) Set up your stat plot
3) Turn stat on
- Is a linear model appropriate? Explain your reasoning. (3 points)
Yes, a linear model is appropriate, the residual plot does not show a clear pattern, height and minutes played are quantitative and there are no outliers in the scatterplot.
- Write the equation of the least squares regression line (LSRL). (2 points)
 $\hat{y} = 190.858 - 2.0735x$ $\hat{y} = \text{minutes played}$ $\hat{x} = \text{height (in inches)}$ $\hat{y} = \text{minutes}$ $\hat{x} = \text{height}$ $\hat{y} = 190.858 - 2.0735(\text{height})$
- Use your model to predict the number of minutes an 80-inch tall individual will play. Show all of your work in the space below. (2 points)
 $\hat{y} = 190.858 - 2.0735(80) = 21.858$ minutes

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