ii) the median of the predictor variable,

Quiz 10 Week of April 5, 1999

1) In fitting a regression line to a scatter plot using OLS, estimates a and b of the line's y-intercept and slope are chosen to (choose one of the 4 possibilities)



2) When the OLS estimate of the slope, b, is zero, the OLS estimate of the intercept, a, is (choose one of the 4 possibilities)



iii) the mean of the response variable, iv) the median of the response variable, v) another complex function of the data, or vi) inestimable.

3) Answer true or false to each of the following questions.

a) The OLS regression line must pass through the point (\bar{X}, \bar{Y}) .



False

b) In an observational study, the slope b measures the change in Y caused by a unit change in X.

True
True

False

c) Weighted least squares (WLS) can be used to give less reliable data (outliers, for example) less weight when estimating the regression line.

