Interpreting regression coefficients 10/2/17
When X or Y or both are log-transformed level - level Intercept: When X=0, y=bo.

- le vel Example Y = sales of beer (\$1000) bo +b1.X When X=0, Y= e bo = 0°F. Sales are 4, 482. (e than b1 · dx · 100 = 6;100 If X poes up by 1 um
Y is predicted to so up by b, 100 parcent to

level - 109 9 = bo + b, · lax Math (optional) Example Intercept: When X=1, y=bo. Y=sales of beer (\$ 000) X = temperature (of) Multiply and divide Intercept: When temp = 1 F sales are predicted to be If X poes up by 1% Y is predicted to go up by b sales one predicted to po

botbi. CX =1, y 15 predicted · eboth, ex sales are predicted to be \$1,280 (e0.25 thou) relative dage The X both sides by 100. dy .100 = b, . dx .100 #1.28 = \$1,280 % oharge in Y by 1%, y is predicted seles