

Math 455 Class 4~~to~~ 39 May 5

Midterm 2: Mean 96 (of 158)

Std Dev ≈ 17 .

Course Evaluations Today.

Comments on Midterm 2:

Writing is an issue, perhaps due to time pressure. Examples next 2 pages.

Another issue: sanity-check your sentence.

Is the claim plausible?

For example in ~~Q~~ 5 (c), if log meant
log - base - 10. $\hat{Y} = 10^{\hat{\beta}_0 + \hat{\beta}_1 X}$.

in ~~th~~ 1000s of dollars. If $\hat{\beta}_0 = 4$; ~~if~~ $X=0$
then $\hat{Y} = 10^4$ thousand dollars.
 $= 10$ million dollars.

NOT plausible.

What's Wrong:

S(a) The starting salary for a statistician with no work experience is \$4,000

(b) For every year of work experience, the statistician's salary goes up by \$50.

S(a) The starting salary is \$10,000.

(b) As the years of work experience increase one unit, annual salary will increase by $e^{0.05} - 1$ percentage points.

S(a) A statistician will earn \$400,000 annually, regardless of their work experience.

S(a) A statistician with no work experience will earn the log 4.

What's wrong

4 (a) On-campus housing students cost
3 thousands of dollars more than off-
campus housing students.

4 (a) The total annual food and housing
cost is 3 times more expensive ~~than~~
for on-campus students.

4 (a) For every additional person who
lives in on-campus housing, costs go up
by \$3,000.