

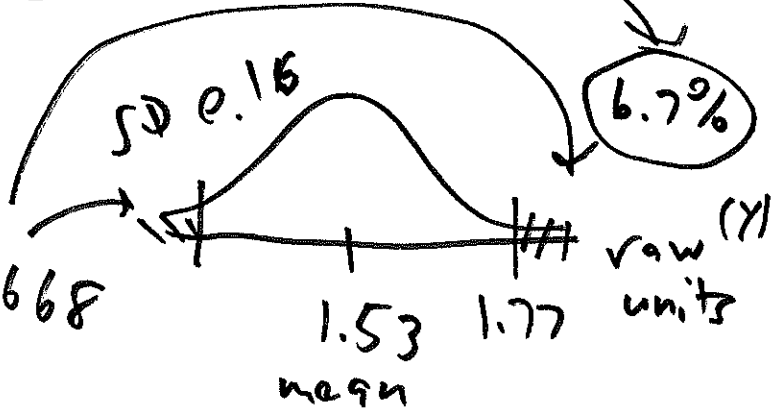
Discussion
Section,
week of
15-19 Oct 18

Disc. Sec. 2, p.
R-29

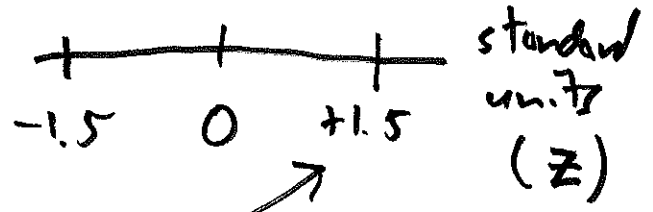
AM57
15 Oct 18

3(a)

①



$$6.7\% \approx .0668$$

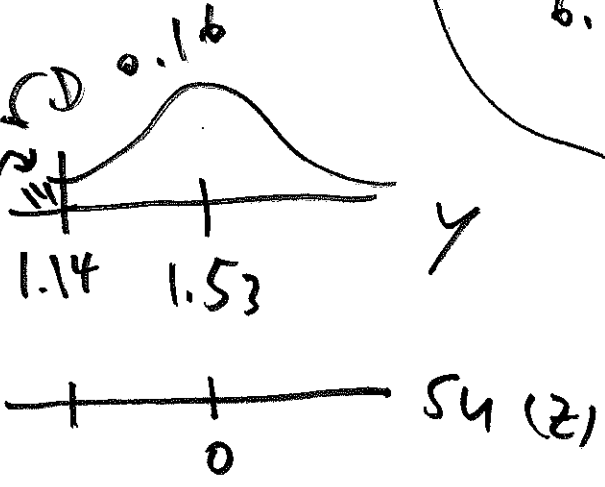


$$\frac{1.77 - 1.53}{0.16} = \frac{+0.24}{0.16}$$

$$= \frac{-0.39}{0.16} = -2.44$$

$$= \frac{+3}{2} = +1.5$$

3(b)



$$\frac{1.14 - 1.53}{0.16} = -2.44$$

.0073 = 0.7%

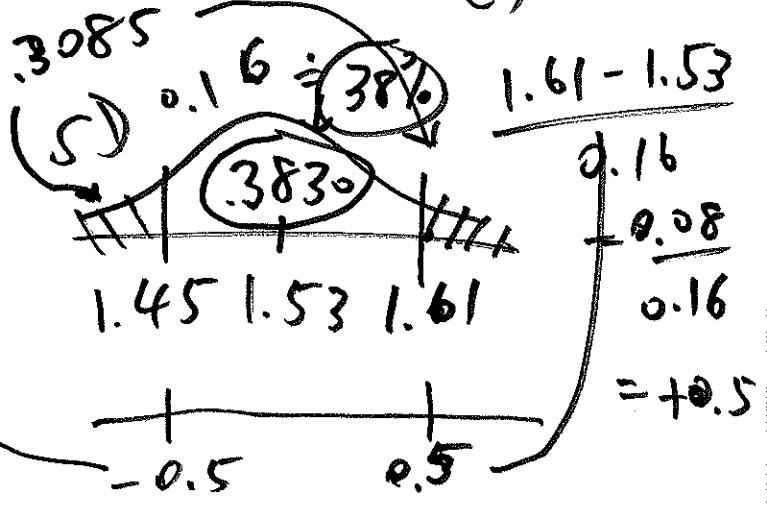
$$(159)(.0073) = 1.1607$$

≈ 1 frog

$$\frac{-0.08}{0.16} = \frac{1.445 - 1.53}{0.16}$$

$$= -0.5$$

3(c)



$$\frac{1.61 - 1.53}{0.16} = \frac{+0.08}{0.16}$$

$$= +0.5$$



experimental design (enriched environment) treatment group (T)

core study: psychobiology (deprived environment) control group (C)

design 0 get 120 rats, put them all in T group, see what cortex

weights result Y = outcome (cortex weight) X = treatment (T, C)

bad comparison group

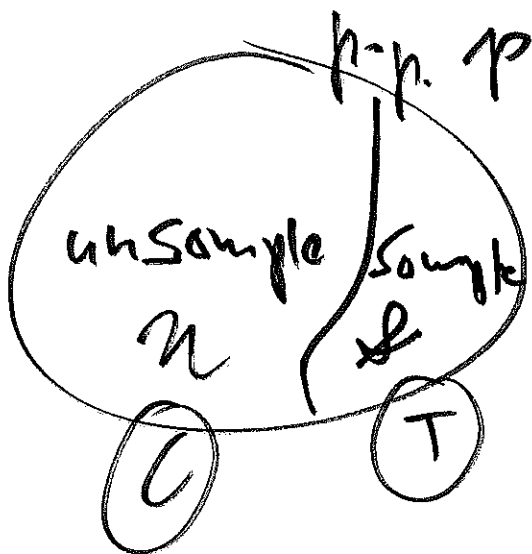
good try to make T, C groups as similar as possible in all relevant ways except for T/C distinction

Z_1 = potential confounding factor ⁽³⁾
(PCF)

3rd variable, not X ,
not Y , but capable
of confusing (confounding) us
about whether changes in X
cause changes in Y

in
psychobiology
case study

an important Z_1 is genetic background



simplest way to
achieve goal Φ :
assign experimental
subjects to \textcircled{T} , \textcircled{C}
at random

4(a)

time →

1 = Y
0 = N

relief? (1)
conventional acupuncture (4)

(longitudinal)
(repeated-measures)

each person serves
as his/her own
control

0	0
0	1
1	1
1	1
0	1

n = 31

1 row
~~for~~
for
each
person

neq 0% neq $\frac{30}{31} = 97\%$