EPPS 6313 : Recitation Session #1

Problem 1

Find level of measurement (median, mode, mean)

- The result of a survey for 30 people about the number of their siblings

$$2,1,1,2,0,1,0,3,2,0,1,1,5,1,2,2,2,1,1,3,0,2,4,0,0,2,1,0,1,2$$

- The result of a survey for 30 people about marital status (1=single, 2=married, 3=divorced)

$$3,3,1,1,1,1,1,2,2,2,3,2,1,2,1,2,2,3,2,2,3,1,2,1,1,1,3,3,2,1$$

Problem 2

Find variance, standard deviation and range in data below.

$$2,1,1,2,0,1,0,3,2,0,1,1,5,1,2,2,2,1,1,3,0,2,4,0,0,2,1,0,1,2$$

Problem 3

A is an event which is people own LCD TV, B is an event which is people own 3D TV.
We know $P(A \bigcup B) = 0.92$, $P(A) = 0.86$, $P(B) = 0.35$
What is $P(A \bigcap B)$?

EPPS 6316 : Recitation Session #1

Problem 1

Assume a simple regression model, $y = \beta_0 + \beta_1 x + u$.

$E(y - \beta_0 - \beta_1 x) =$

$E[x(y - \beta_0 - \beta_1 x)] =$

Problem 2

Given the data on the variables X and Y.

X	0	7	1	3	4	-1
Y	0	14	0	5	7	-1

(1) Calculate β_1 and β_2

(2) Calculate $E(u_i|X_i)$

(3) Calculate $\sum X_i u_i$

↑ you can get a certain value. It is always same in the CLRM. You can learn the reason in the next class.