DATA ANALYTICS WITH R, EXCEL AND TABLAEU
ASSIGNMENT 8.3 ANSWERS
By ASHISH S SHANBHAG
ashishshanbhag108@gmail.com

Question no:

5)

1a) Find the probability that X is equal to 17.

> dbinom(17, size = 31, prob = 0.447)

[1] 0.07532248

1b). Find the probability that X is at most 13.

> pbinom(13, size = 31, prob = 0.447)

[1] 0.451357

1c). Find the probability that X is bigger than 11.

> pbinom(11, size = 31, prob = 0.447, lower.tail = FALSE)

[1] 0.8020339

1d). Find the probability that X is at least 15.

> pbinom(14, size = 31, prob = 0.447, lower.tail = FALSE)

[1] 0.406024

1e). Find the probability that X is between 16 and 19, inclusive.

> sum(dbinom(16:19, size = 31, prob = 0.447))

[1] 0.2544758

> diff(pbinom(c(19, 15), size = 31, prob = 0.447, lower.tail = FALSE))

[1] 0.2544758