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**DATA ANALYTICS WITH R, EXCEL and TABLEAU**

**Session 8 – Assignment – 8.3**

Problem 1

1. A recent national study showed that approximately 44.7% of college students have used Wikipedia as a

source in at least one of their term papers. Let X equal the number of students in a random sample of

size n = 31 who have used Wikipedia as a source.

Perform the below functions

a. Find the probability that X is equal to 17

b. Find the probability that X is at most 13

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

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

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

Answer 1

a

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

b

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

c

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

d

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

e

it will take continous values from 16 to 19

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