SESSION 8 - ASSIGNMENT 8.3

Date: 29th Jan 2019

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 operations:

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a. Find the probability that X is equal to 17 dbinom(17,size = 31,prob = 0.447)[1] 0.07532248
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- b. Find the probability that X is at most 13 pbinom(13,size = 31,prob = 0.447) [1] 0.451357
- c. Find the probability that X is bigger than 11.
 pbinom(11,size = 31,prob = 0.447,lower.tail = F)
 [1] 0.8020339
- d. Find the probability that X is at least 15. pbinom(14,size = 31,prob = 0.447,lower.tail = F) [1] 0.406024
- e. Find the probability that X is between 16 and 19, inclusive sum(dbinom(16:19,size = 31,prob = 0.447))
 [1] 0.2544758