# **Assignment 8.3**

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# Assignment 8.3
# A Recent national study showed that approximately 44.7% ofcollege
# students have used Wikipédia as a source in at least one of their term pap
er
# Let X be equal the number of students in a random sample of size n 3l who
have
# used Wikipedia as a source.
# Perform the below operations:
# A. Find the probability that X is equal to 17
\# x = Value
# p = 1/3
\# n = 31
pbinom(17,31,1/3)
## [1] 0.9959538
# B. Find the probability that X is at most L3
pbinom(13,31,1/3)
## [1] 0.8848157
# C. Find the probability that X is bigger than 11
##pbinom(X > = 11, n, p) = 1 - p(X < = 11, n, p)
1- pbinom(11,31,1/3)
## [1] 0.3225039
# D. Find the probability that X is atleast 15
##pbinom(X > = 15, n, p) = 1 - p(X < = 15, n, p)
1- pbinom(15,31,1/3)
## [1] 0.02702409
# E. Find the probability that X is between 16 and 19, inclusive
##pbinom(X > = 16, n, p) + p(X < = 19, n, p)
## 1 - pbinom(X < = 16, n, p) + p(X < = 19, n, p)
1- pbinom(16,31,1/3)+pbinom(19,31,1/3)
```

### R Markdown

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

##summary(cars)

## **Including Plots**

You can also embed plots, for example:

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.