

ASSIGNMENT 8.3

Perform the below operations:

- a. Find the probability that X is equal to 17

Answer: `dbinom(17,31,0.447)`

```
[1] 0.07532248
```

- b. Find the probability that X is at most 13

Answer: `1-pbinom(12,31,0.447)`

```
[1] 0.6858735
```

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

Answer: `1-pbinom(11,31,0.447)`

```
[1] 0.8020339
```

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

Answer: `1-pbinom(14,31,0.447)`

```
[1] 0.7246284
```

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

Answer: `1-pbinom(15,31,0.447)-1-pbinom(19,31,0.447)`

```
[1] 0.1488671
```