

## Question 13.1

For each of the following distributions, give an example of data that you would expect to follow this distribution (besides the examples already discussed in class).

a. Binomial

In a very optimistic Covid-19 trial (to bring us back to a normal world), a vaccine will cure cases in some patients, and not in others.

b. Geometric

The amount of times the vending machine gives me skittles before a pack gets stuck.

c. Poisson

The amount of puppies adopted tomorrow in North Carolina.

d. Exponential

The TIME between puppy adoptions tomorrow in North Carolina.

e. Weibull

The amount of time between bad passes for a soccer player. More talented players (k>1) will have more time between poor passes versus lesser (k<1) players.