Discrete

Uniform
Probability of any possible bus to arrive to the station is the same

Bernoulli
Probability of a bus to arrive to the station with free seat

Binomial
How many buses out from N will arrive to the station with free seats

Geometric
How many buses to skip to get to the bus with free seat

Negative binomial (Pascal)
How many non free buses will come until N buses with free seats with arrive

Poisson
Average time units between 2 buses

Continuous

Exponential
Time to wait until next bus

Gamma
Time to wait for N buses to arrive

Beta
Number of free seats out of all seats in the bus