Question 1

i .

* Each student either passes (success) or fails (failure).
* Probability of success (passing) for each student: p=0.85*p*=0.85.
* Number of independent trials (students): n=50*n*=50.
* The students are selected randomly.

Question 2

i.

*X* is the number of customer calls received in an hour.

ii.

* Calls occur independently at a constant average rate.
* Average rate: λ=12*λ*=12 calls per hour.
* We are counting events in a fixed interval (one hour).