Chance	Random
Trial	Outcome
Probability	Sample
Population	Simulation

Occurring in an unpredictable way without any pattern or bias.	The probability or likelihood of an event occurring.
The result of a single trial in a simulation or experiment.	A single performance or instance of a simulation or experiment.
A subset of a population used to estimate characteristics of the whole population.	The measure of how likely an event is to occur.
A model or representation of a real-world process or system used for investigation or prediction.	The entire group of individuals or objects under consideration.