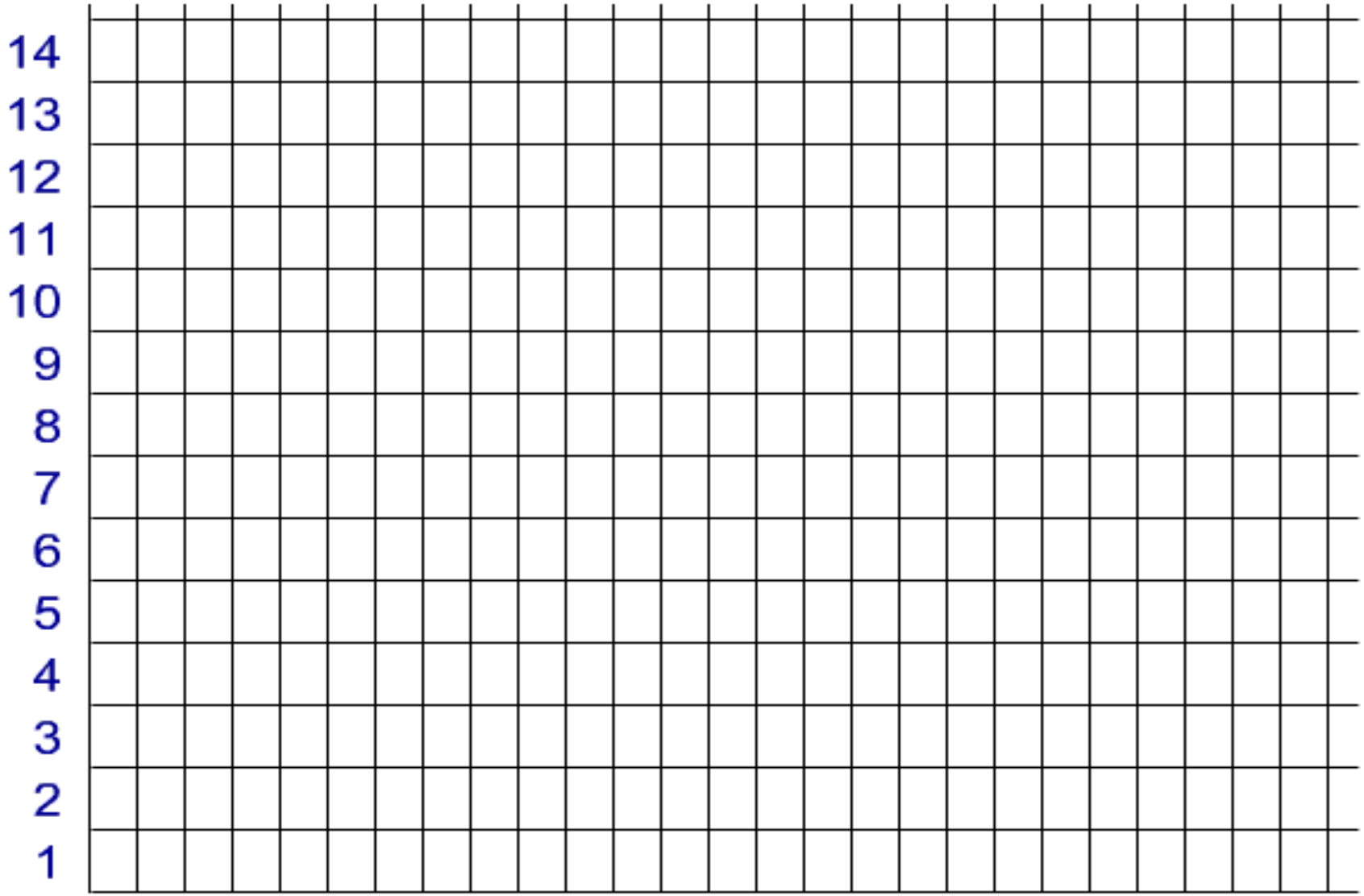Simulation