

S-IC Block Scheduling

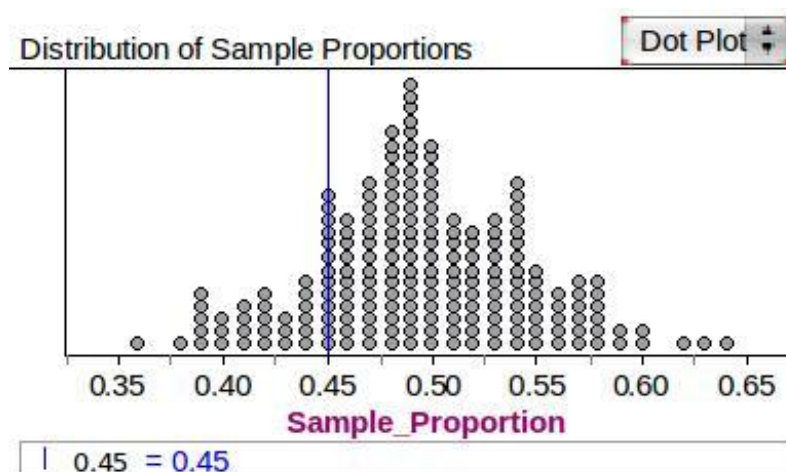
Task

A random sample of 100 students from a specific high school resulted in 45% of them favoring a plan to implement block scheduling. Is it plausible that a majority of the students in the school actually favor the block schedule? Simulation can help answer the questions.

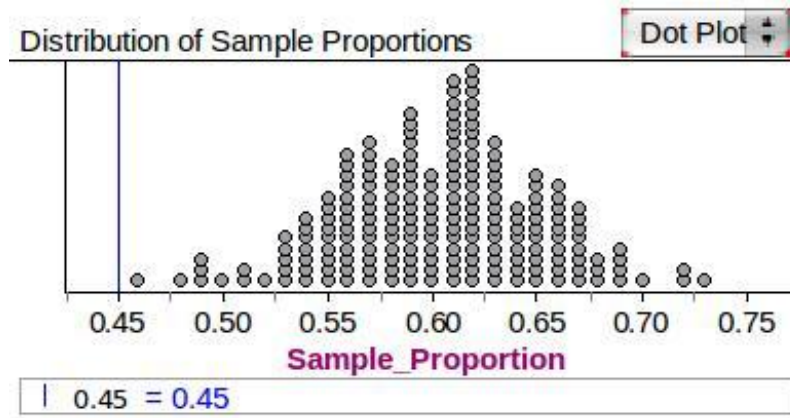
The accompanying plot shows a simulated distribution of sample proportions for samples of size 100 from a population in which 50% of the students favor the plan, and another distribution from a population in which 60% of the students favor the plan. (Each simulation contains 200 runs.)

- What do you conclude about the plausibility of a population proportion of 0.50 when the sample proportion is only 0.45?
- What about the plausibility of 0.60 for the population proportion?

Population proportion 0.5; sample size 100



Population proportion 0.6; sample size 100



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