Deciding among discrete distributions Am I given a When a selection is made, is the fixed number of trials Selected item removed (or attempts or selections) to the pool? and being asked about the number of Alt: Does the current Selection/trial have Successes? out come of the next one? Page 2 Is the effect of replacement small 6/c the total population sizeN X-Binon(np) K of optims is large N= # trials (# selections) p = prob of on each trial I ~ HyperGeom (N, n, k) N = Population size of options n = # A selector k Population size of grap of interest.

Deciding among discrete distributions An I being asked Are you waiting Yes How many trials/ for the first time attempts/ selections it happens? until..." Xno Geom (p) No D: success prob Are you being asked about a X~ NegBinon (p.h) Number of individuals k Number of either arriving in Successes we are waiting a window of the to see or being counted in an area? Are you being In Pois(u) asked about rare events? Apelo