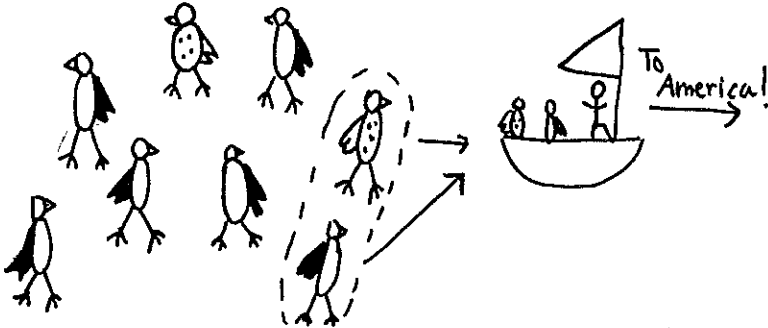


PREDICTING a new population due to Genetic Drift

1. Christopher Columbus randomly chose 2 chickens from Spain to take with him on his voyage to America. Predict what the new population in America will look like after a few generations by drawing the new population below:

ORIGINAL POPULATION:

NEW POPULATION:



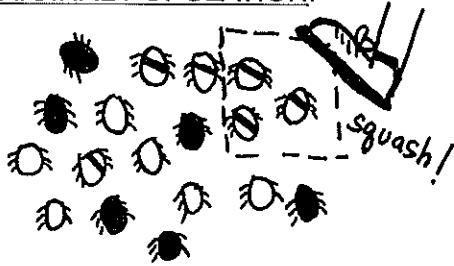
1a. How does the new population compare to the original population?

1b. How does the frequency of alleles in the new population compare to the frequency of alleles in the original population?

2. A man accidentally steps on and kills the bugs below in the dotted area. Predict what the new population of bugs will look like after a few generations by drawing the new population below:

ORIGINAL POPULATION:

NEW POPULATION:



2a. How does the new population compare to the original population?

2b. How does the frequency of alleles in the new population compare to the frequency of alleles in the original population?