Name:		

## PREDICTING A NEW POPULATION DUE TO GENETIC DRIFT

1. When Christopher Columbus came to the Americas, he randomly chose 3 chickens from Spain to bring with him. These 3 chickens were the only chickens to breed in the Americas. Circle 3 Chickens. Predict what the new population in America will look like.



- a. Overtime, which phenotypes would you see more of in the new population? Which phenotypes would you see less of in the new population?
- b. Which type of genetic drift does this situation present? What happens to the diversity of the new population compared to the original population?
- 2. During a hike a man accidently steps on a population of beetles that were in path. Cross out 4 beetles Predict what the new population of beetles will look like.



- a. Overtime, which phenotypes would you see more of in the new population? Which phenotypes would you see less of in the new population?
- b. Which type of genetic drift does this situation present? What happens to the diversity of the new population compared to the original population?
- 3. The Typhoon Haiyan, that occurred in November of 2013, is estimated to have killed over 500 water buffalo. Water buffalo are used in the Phillipines to plow crops. Many of the water buffalo that perished in the typhoon were near farms, most of them that died were muscular. The less muscular buffalo were left to wonder in the surrounding area. Predict what the new population of water buffalo will look like
- a. Overtime, which phenotypes would you see more of in the new population? Which phenotypes would you see less of in the new population?
- b. Which type of genetic drift does this situation present? What happens to the diversity of the new population compared to the original population?