

Quiz 11

- Which is NOT a requirement for a population to satisfy the conditions of the Hardy-Weinberg Principal?
 - there must be no genetic change in the population
 - there must be no differences in survival ability among individuals
 - the population size must be large
 - the two alleles must occur in equal frequency
- Sunflowers can have either a single large flower, or many small flowers. This is controlled by a single gene with two alleles. The single flower allele is dominant. In a population of sunflowers, the frequency of the single flower allele is 0.4. What is the frequency of the other allele?
 - 0.6
 - 0.36
 - 0.16
 - 0.4
- Using the information in the previous question, what proportion of the population will have multiple flowers if they mate randomly?
 - 36%
 - 60%
 - 64%
 - 16%
- Which is NOT a requirement for evolution by natural selection?
 - phenotypic differences among individuals
 - genetic differences among individuals
 - the population size must be large
 - heritability of differences in survival or reproductive ability
- Evolutionary trends in horses are well-documented in the fossil record. Which is not indicated by the fossil record of horses?
 - horses evolved to have two toes during evolution
 - horses increased in body size during their evolution
 - horses moved from forests to grasslands during their evolution
 - horses became better at eating grasses during their evolution