

17.1 Genes and Variation

Genetics and Evolutionary Theory

For Questions 1-4, complete each statement by adding the correct word(s).

1. Natural selection is an evolutionary process that acts on _____.
2. _____, a concept of all the genes, including the alleles, that are present in a population.
3. A population's genetic composition is called the _____.
4. The study of how the genetic composition of a population changes over time is called the _____ of the population.

Use the paragraph of evidence below to answer Questions 5-8.

Genetics In the simplest form, you inherit half of your DNA from your mother and half from your father. The DNA contains the instructions that determine all your physical characteristics.



5. How does allele Aa differ from the aa in the sample population with the percentage of allele frequency shown above?
6. How does allele AA differ from the aa in the sample population with the percentage of allele frequency shown above?
7. How do the Aa genotypes differ from the aa genotype in frequency?
8. How does the Aa genotype differ from the aa genotype in frequency?

Genes And Variation 17 Worksheet Answers

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