Name _____ Class_____Date_____

Assessment

Quiz

Section: Mendel's Theory

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

_____ 1. Which of the following is a genotype for an individual heterozygous for a trait?
   a. *Rr*
   b. *tt*
   c. *YY*
   d. *Pr*

_____ 2. Which of the following is *not* one of Mendel's major hypotheses?
   a. An individual receives two copies of a gene for each character.
   b. Genes have alternative versions, which we now call alleles.
   c. Gametes carry several alleles for each inherited trait.
   d. When two alleles appear together, one may be dominant.

_____ 3. Mendel's law of segregation states that each pair of alleles
   a. is linked to sex chromosomes during gamete formation.
   b. separate independently of one another after gamete formation.
   c. remain together when gametes are formed.
   d. is separated when gametes are formed.

_____ 4. Which of the following is a phenotype for Mendel's pea plant with a heterozygous flower color?
   a. white flowers
   b. purple flowers
   c. pink flowers
   d. speckled flowers

In the space provided, write the letter of the description that best matches the term or phrase.

_____ 5. homozygous
_____ 6. heterozygous
_____ 7. alleles
_____ 8. genotype
_____ 9. dominant
_____ 10. recessive

a. form of a trait that is not expressed when the dominant allele is present
b. different versions of a gene
c. for example, *pp*
d. set of all the alleles that an individual has
e. for example, *Pp*
f. fully expressed form of a trait when a single allele is present