Name _____ Class_____Date_____

Assessment

Quiz

Section: Modeling Mendel's Laws

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

_____ 1. In a pedigree, two normal parents produce a child with a genetic disorder. Based on this information, you know that the genetic disorder is caused by a
a. sex-linked allele.
b. dominant allele.
c. codominant allele.
d. recessive allele.

_____ 2. The results of a testcross are some purple-flowering plants and some white-flowering plants. What is the genotype of the original purple-flowering pea plant?
a. *PP*
b. *pp*
c. *Pp*
d. There is not enough information.

_____ 3. In a pedigree, a carrier for a non sex-linked gene would be represented as a(n)
a. normal individual.
b. individual who has a genetic disorder.
c. square.
d. circle.

_____ 4. Which of the following is *not* true of most sex-linked traits?
a. located on the X chromosome
b. located on autosomes
c. usually recessive
d. usually seen in males

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

_____ 5. homozygous recessive

_____ 6. 1 *WW* : 2 *Ww* : 1 *ww*

_____ 7. Punnett square

_____ 8. testcross

_____ 9. probability

_____ 10. all *Ww* offspring

a. result of a cross between the parents *WW* and *ww*
b. result of a cross between the parents *Ww* and *Ww*
c. likelihood that an event will occur
d. used to determine the genotype of a purple-flowering pea plant
e. model used to predict the outcome of a genetic cross
f. good choice of genotype for a testcross to find out the genotype of an individual who might be *Ww* or *WW*

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