

Assessment

Quiz**Section: Origins of Hereditary Science**

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

- _____ 1. The garden pea is a good subject for genetic study because it
- is easy to grow.
 - has characters in two clearly different forms.
 - produces many offspring.
 - All of the above
- _____ 2. Mendel first allowed each variety of garden pea to self-pollinate for several generations. This produced the
- F₁ generation.
 - F₂ generation.
 - P generation.
 - filial generation.
- _____ 3. What did Mendel find in the F₁ generation?
- a ratio of 3:1
 - a ratio of 3:1:3
 - 30 percent of the plants expressed the dominant trait.
 - 100 percent of the plants expressed the dominant trait.
- _____ 4. Which ratio of plants expressing contrasting traits did Mendel find in the F₂ generation?
- 3:1
 - 3:1:3
 - 3:3
 - 1:1
- _____ 5. The trait that disappeared in the F₁ generation
- reappeared in some plants in the F₂ generation.
 - reappeared in all plants in the F₂ generation.
 - reappeared in some plants in the P generation.
 - was lost forever.

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

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| _____ 6. Mendel | a. comparison of two numbers |
| _____ 7. ratio | b. branch of biology that focuses on heredity |
| _____ 8. hybrid | c. he did breeding experiments with garden pea plants |
| _____ 9. generation | d. all the offspring produced from a group of parents |
| _____ 10. genetics | e. the offspring of a cross between parents that have differing traits for a character |