

SECTION 9-2 REVIEW

GENETIC CROSSES

VOCABULARY REVIEW Define the following terms, and provide one example for each.

1. complete dominance _____

2. incomplete dominance _____

3. codominance _____

MULTIPLE CHOICE Write the correct letter in the blank.

- _____ 1. The appearance of an organism is its
a. genotype. b. phenotype. c. genotypic ratio. d. phenotypic ratio.
- _____ 2. A genetic cross performed many times produces 798 long-stemmed plants and 266 short-stemmed plants. The probability of obtaining a short-stemmed plant in a similar cross is
a. 266/1,064. b. 266/798. c. 798/266. d. 798/1,064.
- _____ 3. A monohybrid cross of two individuals that are heterozygous for a trait exhibiting complete dominance would probably result in a phenotypic ratio of
a. 4 dominant:0 recessive. c. 3 dominant:1 recessive.
b. 1 dominant:3 recessive. d. 1 dominant:1 recessive.
- _____ 4. To determine the genotype of an individual that shows the dominant phenotype, you would cross that individual with one that is
a. heterozygous dominant. c. homozygous dominant.
b. heterozygous recessive. d. homozygous recessive.
- _____ 5. In a dihybrid cross between an individual with the genotype *RRYY* and an individual with the genotype *rryy*, all of the offspring will have the genotype
a. *RRYY*. b. *RrYY*. c. *RrYy*. d. *rryy*.