

# Monohybrid Cross Worksheet

Name \_\_\_\_\_

Period \_\_\_\_\_

## Part A: Vocabulary

Match the definitions on the left with the terms on the right.

- |   |                 |
|---|-----------------|
| ____ 1. genotypes made of the same alleles                  | A. alleles      |
| ____ 2. different forms of genes for a single trait         | B. dominant     |
| ____ 3. gene that is always expressed                       | C. heterozygous |
| ____ 4. gene that is expressed only in the homozygous state | D. homozygous   |
| ____ 5. genotypes made of two different alleles             | E. recessive    |

Below each of the following words are choices. Circle the choices that are examples of each of those words.

6. Dominant allele

D e k L N n R S

7. Recessive allele

M n d F G r k P

8. Homozygous dominant

6. **Comparing and Contrasting** Explain the difference between cross-pollination and self-pollination in plants.

7. **Calculating** One fourth of the plants resulting from a certain cross are expected to show a trait controlled by a recessive allele. If 675 plants resulting from the cross display a trait controlled by a dominant allele, how many plants will show the trait controlled by the recessive allele?

8. **Applying Concepts** If one of the plants used in the  $F_1$  cross had  $TT$  alleles and was combined with a plant with  $Tt$  alleles, would the trait controlled by the recessive allele have been produced in the resulting  $F_2$  generation? Explain your answer.

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