

Name: _____

Date: _____



More Punnett Square Practice



A punnett square helps scientists predict the possible genotypes and phenotypes of offspring when they know the genotypes of the parents. The *phenotype* is the physical appearance of an organism and the *genotype* is the inherited combination of alleles. This skill sheet will give you additional practice in using punnett squares to solve genetics problems.

EXAMPLE

In rabbits, black fur is dominant to white fur. If you cross a **BB** male with a **Bb** female, what are the possible genotypes and phenotypes of the offspring? What is the percent chance for each type?

Solution:

| | | |
|----------|-----------|-----------|
| | B | B |
| B | BB | BB |
| b | Bb | Bb |

| Genotype | Phenotype | Chance |
|----------|-----------|--------|
| BB | Black fur | 50% |
| Bb | Black fur | 50% |

PRACTICE

- In cabbage butterflies, White wings are dominant to yellow wings. If a **Ww** butterfly is crossed with a **ww** butterfly, what are the possible genotypes and phenotypes of the offspring and the percent chance for each?

| | | |
|----------|----------|----------|
| | W | w |
| w | | |
| w | | |

Fill in the table:

| Genotype | Phenotype | Chance |
|----------|-----------|--------|
| | | |
| | | |