

# Genetics

## Rabbit Punnett Squares

Name:

Period:

Make Punnett squares for the cross below, and answer the questions. You can use Chapter 6, Section 2 of your book to help you. Remember:

**genotype** - what the genes say with their alleles

**phenotype** - what you see when looking at the organism

**allele** - variations of a gene (dominant with a CAPITAL, recessive with a lower case)

each box of the Punnett square will have two letters in it

count the number of boxes that have the alleles you are looking for

as there are only four boxes, your percents can only be: 0%, 25%, 50%, 75%. or 100%

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The allele for black fur in rabbits (**B**) is dominant over the allele for white fur (**b**). Make a Punnett square for the cross **BB x bb**.

What are the genotypes of the parents? \_\_\_\_\_ and \_\_\_\_\_

What are the phenotypes of the parents? BB: \_\_\_\_\_ and bb: \_\_\_\_\_

List all of the possible genotypes of the offspring: \_\_\_\_\_

What is the % chance that any baby bunnies will have white fur? \_\_\_\_\_

What is the % chance that any baby bunnies will carry an allele with the recessive trait **b**? \_\_\_\_\_

What will the fur color be of the baby bunnies that come from this cross? \_\_\_\_\_



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