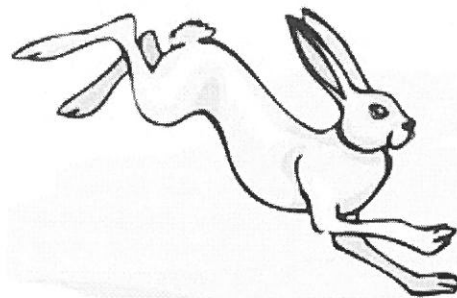


Name: \_\_\_\_\_

## Genetic Crosses that Involve 2 Traits -- Biology 2

In rabbits, grey hair is dominant to white hair. Also in rabbits, black eyes are dominant to red eyes.



GG = gray hair  
Gg = gray hair  
gg = white hair

BB = black eyes  
Bb = black eyes  
bb = red eyes

1. What are the phenotypes (descriptions) of rabbits that have the following genotypes:

Ggbb \_\_\_\_\_ ggBB \_\_\_\_\_  
ggbb \_\_\_\_\_ GgBb \_\_\_\_\_

2. A male rabbit with the genotype GGbb is crossed with a female rabbit with the genotype ggBb. The square is set up below. Fill it out and determine the phenotypes and proportions in the offspring.

How many out of 16 have grey fur and black eyes? \_\_\_\_\_

How many out of 16 have grey fur and red eyes? \_\_\_\_\_

How many out of 16 have white fur and black eyes? \_\_\_\_\_

How many out of 16 have white fur and red eyes? \_\_\_\_\_

	Gb	Gb	Gb	Gb
gB				
gB				
gb				
gb				

3. A male rabbit with the genotype GgBb is crossed with a female rabbit with the genotype GgBb. The square is set up below. Fill it out and determine the phenotypes and proportions in the offspring.

How many out of 16 have grey fur and black eyes? \_\_\_\_\_

How many out of 16 have grey fur and red eyes? \_\_\_\_\_

How many out of 16 have white fur and black eyes? \_\_\_\_\_

How many out of 16 have white fur and red eyes? \_\_\_\_\_

	GB	Gb	gB	gb
GB				
Gb				
gB				
gb				

4. Show the cross between a  $ggBb$  and a  $GGBb$ . You'll have to set the square up yourself!