

DIHYBRID CROSSES:

In rabbits, white hair is dominant to brown hair, and black noses are dominant to pink noses.

Hair color

Genotype	Phenotype
WW	
Ww	
ww	

Nose color

Genotype	Phenotype
BB	
Bb	
bb	

What are the four possible phenotypes?

1. White fur and Black nose
- 2.
- 3.
- 4.

A male rabbit that is homozygous for white hair and pink noses is mated with a female rabbit with brown hair and heterozygous for nose color.

Male genotype _____ Female genotype _____

WW

Ww

ww

BB

Bb

bb

What is the chance of getting a white fur black nose bunny?

What is the chance of getting a white fur pink nosed bunny

What is the chance of getting a brown fur black nose bunny?

What is the chance of getting a brown fur pink nose bunny?

What is the chance of getting a homozygous white fur and pink nose?

What is the chance of getting a heterozygous white fur and heterozygous black nose?

If you cross a bunny that is heterozygous for both traits:

WW

Ww

ww

BB

Bb

bb

What is the chance of getting a white fur black nose bunny?

What is the chance of getting a white fur pink nosed bunny?

What is the chance of getting a brown fur black nose bunny?

What is the chance of getting a brown fur pink nose bunny?