

Tongue rollers are dominant over non-tongue rollers. Cross a **homozygous tongue roller** with a **heterozygous tongue roller**. List all of the possible phenotypes and genotypes of the offspring and the probability of each.

homozygous tongue roller

T T

heterozygous tongue roller

T t

phenotypes

TT, Tt

genotypes

	T	T
T	T T Tongue roller	T T Tongue roller
t	T t Tongue roller	T t Tongue roller

Jan 6 - 12:55 PM

This is a Punnett Square

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Cross two heterozygous people.

	B	b
B	BB	Bb
b	Bb	bb

What do you notice?

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Cross two heterozygous people.

	B	b
B	BB	Bb
b	Bb	bb

What is the total probability that offspring could have the dominant (B) trait?

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Cross two heterozygous people.

	B	b
B	BB	Bb
b	Bb	bb

What is the total probability that offspring could have the recessive (b) trait?

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homozygous tongue roller

TT

heterozygous tongue roller

Tt

phenotypes

tongue roller

genotypes

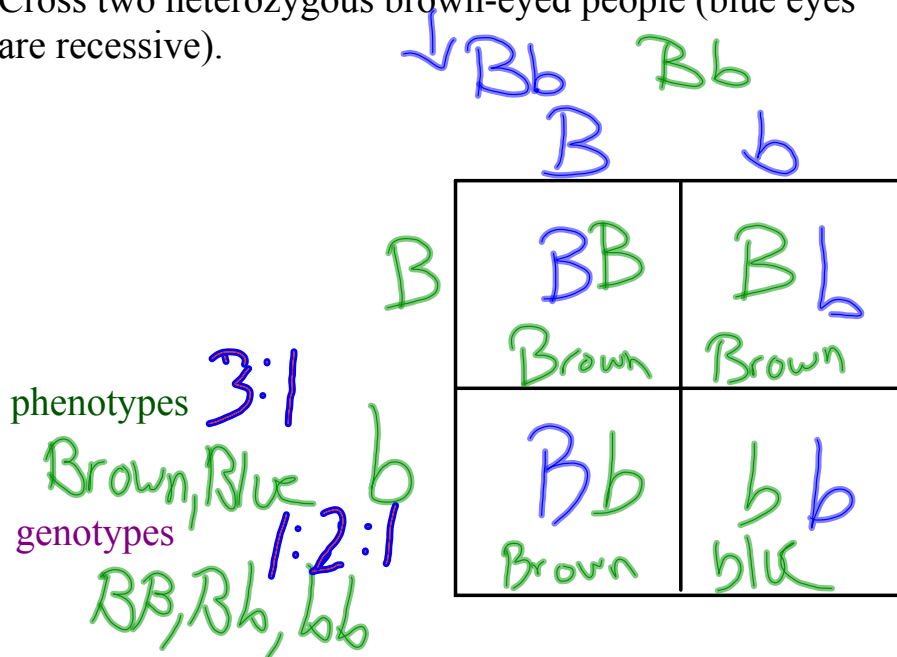
TT, Tt
50% 50%

T T

T T Tongue roller	T T Tongue roller
T t Tongue roller	T t Tongue roller

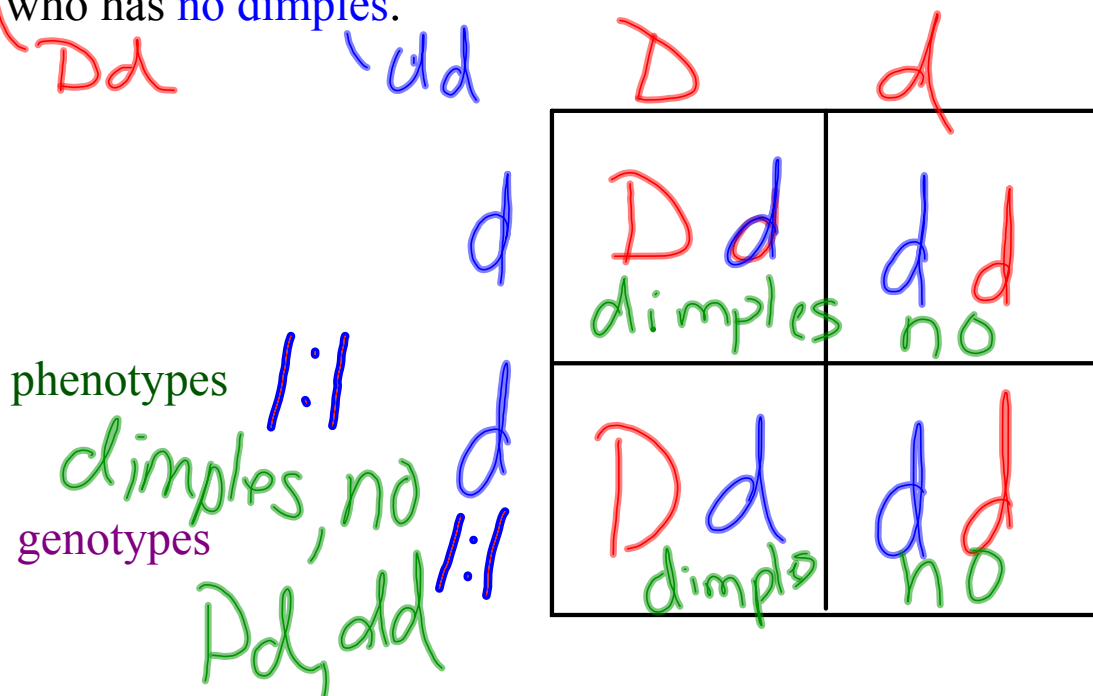
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Cross two heterozygous brown-eyed people (blue eyes are recessive).



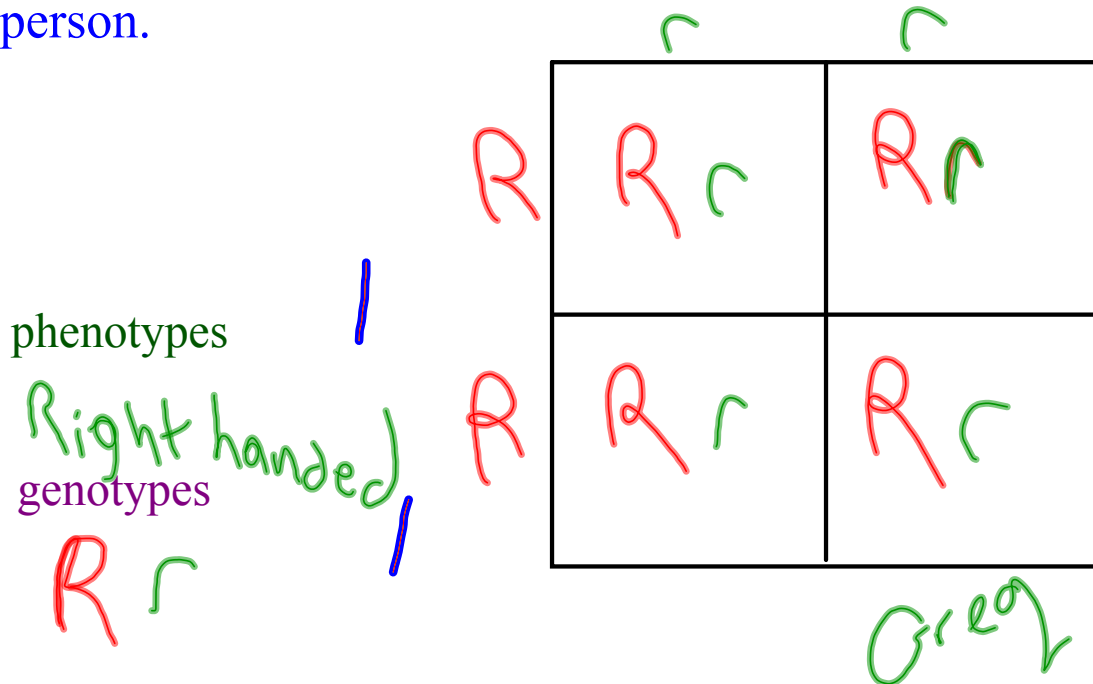
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Dimples is a dominant trait. A mother that is heterozygous for the gene for dimples with her husband who has no dimples.



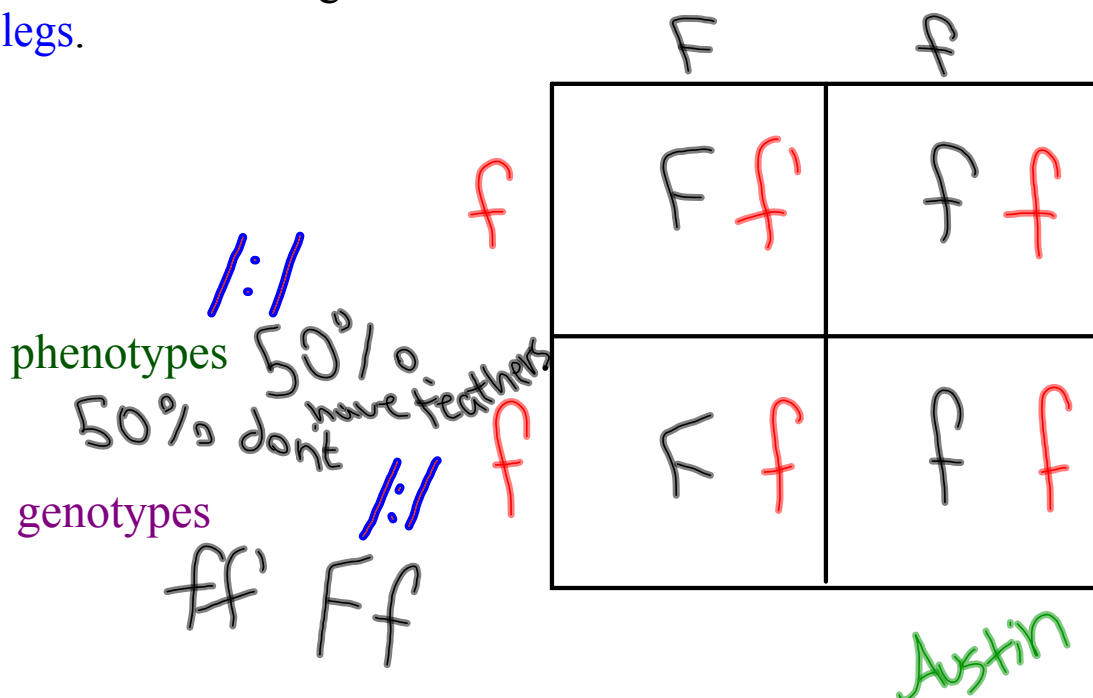
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Handedness in humans is hereditary with right-handedness dominant to left handedness. Cross a **homozygous right-handed** person and a **left-handed** person.



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Feathering on the legs of chickens is due to an allele, F . Absence of feathers is due to f . A **heterozygous hen** with feathers on her legs is mated with a rooster that has **bare legs**.



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In cabbage butterflies, white color (W) is dominant and yellow color (w) is recessive. Cross a **pure white** cabbage butterfly mates with a **yellow** cabbage butterfly.

phenotypes

White butterfly w

genotypes

Ww

100%

W	W
Ww	Ww
Ww	Ww

Amanda

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In guinea pigs, black coat color is dominant over white coat color. Cross two heterozygous black guinea pigs.

phenotypes

3:1

black coat

white coat

genotypes

1:2:1

CC homozygous black - 25%
Cc heterozygous - 50%
cc homozygous white - 25%

C	C
black	black
black	white

Amanda

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In rabbits the allele for black coat color (B) is dominant over the allele for brown coat color (b). Cross an animal **homozygous for black coat color** (BB) and one **homozygous for brown coat color** (bb)?

phenotypes

Black

genotypes

Bb

b

b

B	B
Bb	Bb
Bb	Bb

Domin

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phenotypes

Black

genotypes

Bb

b

b

B	B
Bb	Bb
Bb	Bb

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Attachments

PunnettSquaressites.doc