Punnett Squares

Last Name _____, First _____ per ___

Definitions:

Dominant allele - _____

_____

_____

Recessive allele - _____

_____

_____

Homozygous - _____

_____

_____

Heterozygous - _____

_____

_____

Allele - _____

_____

_____

Genotype - _____

_____

_____

Phenotype - _____

_____

_____

Cross blue-tailed creatures with orange-tailed creatures. Blue is dominant.

1. Set up a Punnett Square for crossing <u>two homozygous blue</u>-tailed creatures.

<u>phenotypes ratios:</u>
Blue = _____%
Orange = _____%

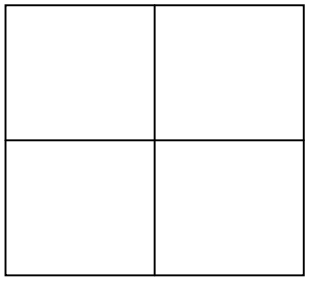
<u>genotypes ratios:</u>
BB = _____%
Bb = _____%
bb = _____%

2. Set up a Punnett Square for crossing <u>two heterozygous blue</u>-tailed creatures.

<u>phenotypes ratios:</u>
Blue = _____%
Orange = _____%

<u>genotypes ratios:</u>
BB = _____%
Bb = _____%
bb = _____%

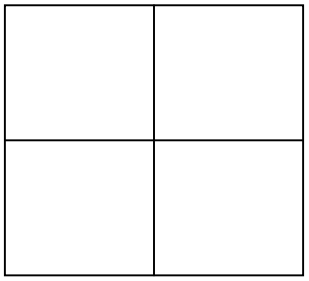
3. Set up a Punnett Square for crossing a homozygous blue-tailed creature and a heterozygous blue-tailed creature.



phenotypes ratios:
Blue = _____%
Orange = _____%

genotypes ratios:
BB = _____%
Bb = _____%
bb = _____%

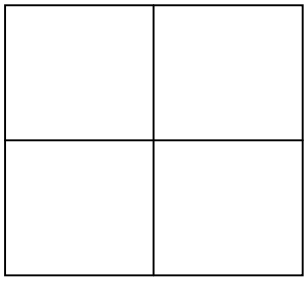
4. Set up a Punnett Square for crossing a homozygous blue-tailed creature and an orange-tailed creature.



phenotypes ratios:
Blue = _____%
Orange = _____%

genotypes ratios:
BB = _____%
Bb = _____%
bb = _____%

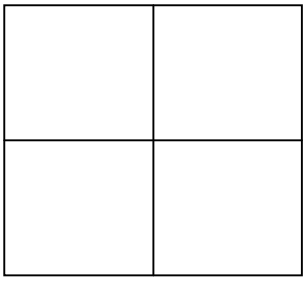
5. Set up a Punnett Square for crossing a heterozygous blue-tailed creature and an orange-tailed creature.



phenotypes ratios:
Blue = _____%
Orange = _____%

genotypes ratios:
BB = _____%
Bb = _____%
bb = _____%

6. Set up a Punnett Square for crossing two orange-tailed creatures.



phenotypes ratios:
Blue = _____%
Orange = _____%

genotypes ratios:
BB = _____%
Bb = _____%
bb = _____%