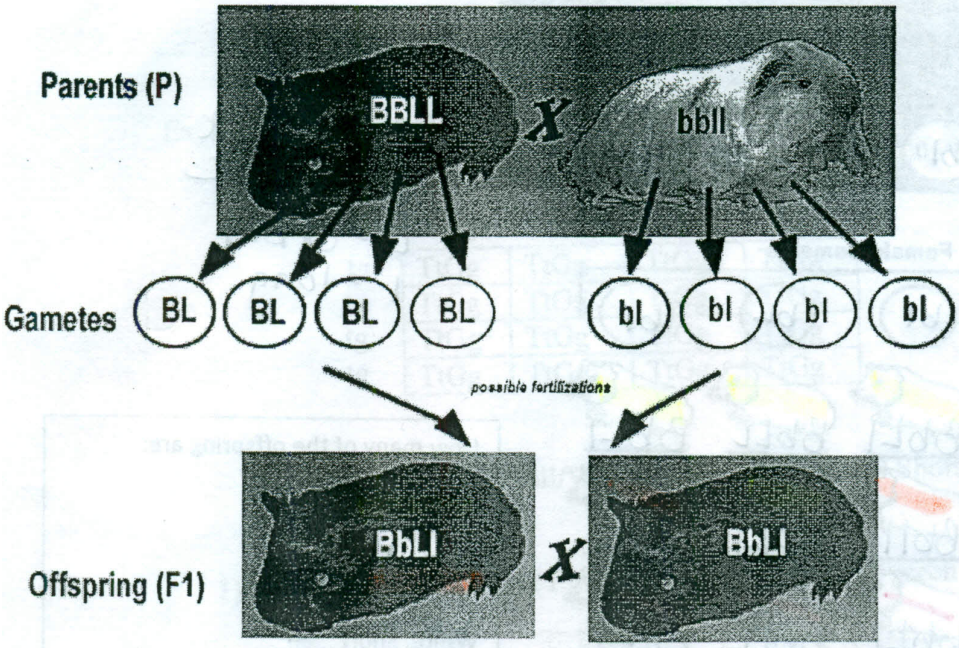
DIHYBRID CROSS

Name Key

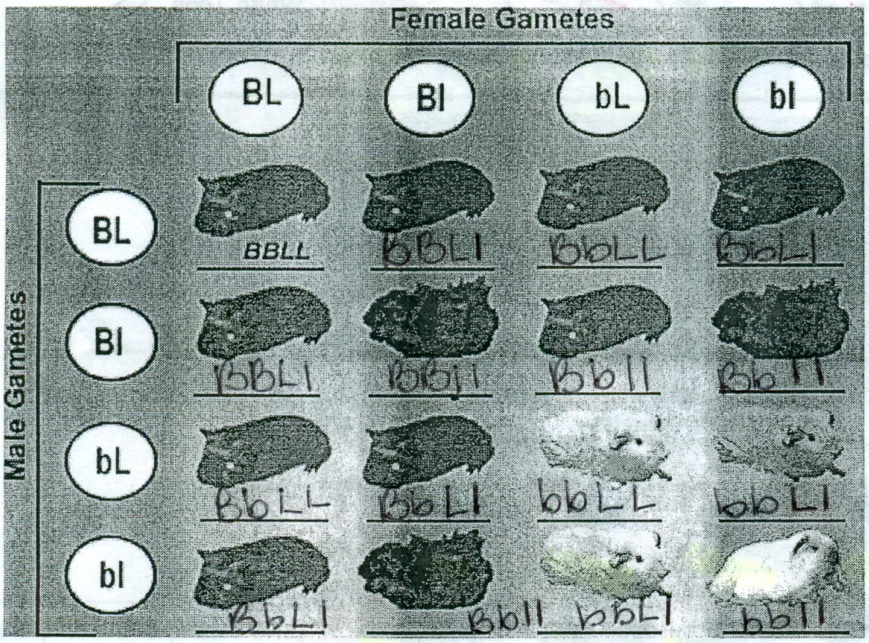
A cross (or mating) between two organisms where two genes are studied is called a DIHYBRID cross.

The genes are located on separate chromosomes, so the traits themselves are unrelated.



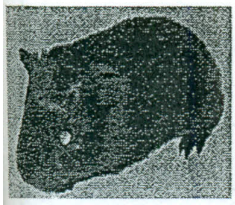
BB = black
Bb = black
bb = white

LL = short hair
Ll = short hair
ll = long hair



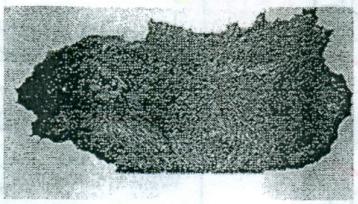
Fill out the genotypes of each of the offspring to determine how many of each type of offspring are produced.

Phenotypic ratios - How many, out of 16 are:



Black, Short

9

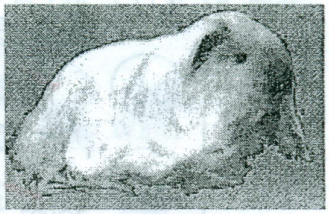


Black, Long

3

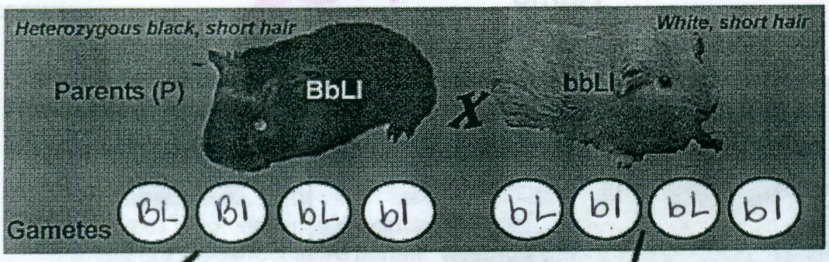
White, Short

3

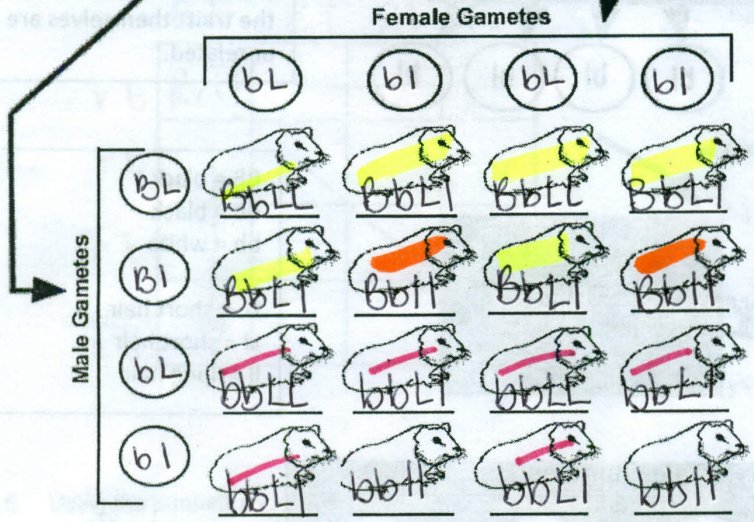


White, Long

1



B = Black
b = White
L = Short
l = long



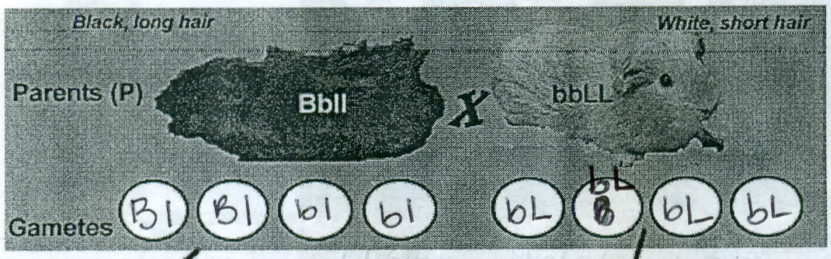
How many of the offspring are:

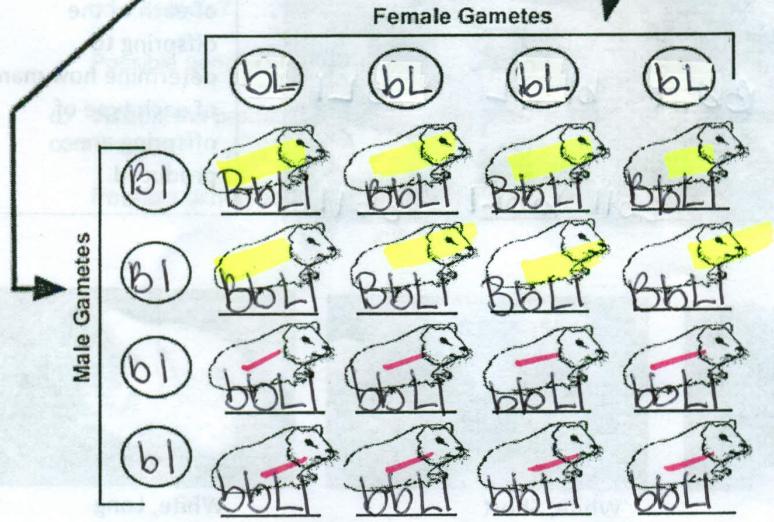
B- L- Black, Short 6

B- ll Black, Long 2

bb L- White, Short 6

bb ll White, Long 2





How many of the offspring are:

B- L- Black, Short 8

B- ll Black, Long 0

bb L- White, Short 8

bb ll White, Long 0