



Name: _____

Dihybrid Practice Problems

Genetic Crosses that Involve 2 Traits

In rabbits, black hair is dominant to brown hair. Also in rabbits, long straight ears are dominant to floppy ears.

These letters represent the genotypes and phenotypes of the rabbits:

BB = black hair
Bb = black hair
bb = brown

EE = long ears
Ee = long ears
ee = floppy ears



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

	Be	Be	Be	Be
bE				
be				
bE				
be				

How many out of 16 have black hair and long ears? _____

How many out of 16 have black hair and floppy ears? _____

How many out of 16 have brown hair and long ears? _____

How many out of 16 have brown hair and floppy ears? _____

2. Show the cross: **BbEe X bbEe**

How many out of 16 have black hair and long ears? _____

How many out of 16 have black hair and floppy ears? _____

How many out of 16 have brown hair and long ears? _____

How many out of 16 have brown hair and floppy ears? _____