

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Biology Review: Dihybrid Crosses

Determine how many combinations of genotypes and phenotypes are present in each of the crosses below.

Allele	Trait	Type
G	Solid gray fur	Dominant
g	Striped gray fur	Recessive
B	Green eyes	Dominant
b	Blue Eyes	Recessive
T	Long tail	Dominant
t	Short tail	Recessive
E	Large ears	Dominant
e	Small ears	Recessive

	G	g		B	b		2	2	4
Ex:	G	GG	Gg	B	BB	Bb			
	g	Gg	gg	b	Bb	bb	3	3	9
	GgBb × GgBb								

For each of the crosses below, determine how many combinations of genotypes are possible.

#1



**bbEe × Bbee**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos

#2



**GGTt × ggTT**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos

#3



**bbEe × BbEe**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos

#4

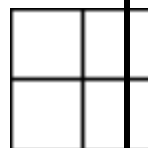
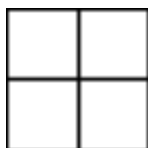


**TtBb × TtBb**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos

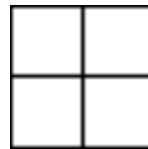
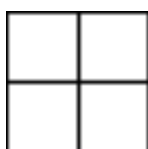
#5

**ggBb × GgBB**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos

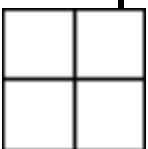
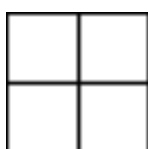
#6

**TtEe × ttEe**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos

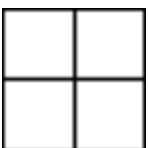
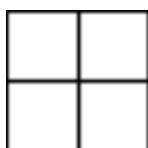
#7

**GGBb × Ggbb**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos

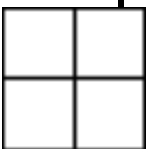
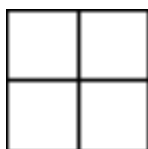
#8

**BbEE × Bbee**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos

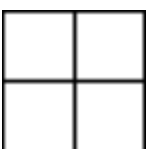
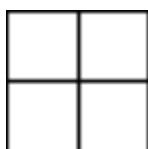
#9

**TtEe × TtEe**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos

#10

**Ggtt × GgTt**

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of phenotypes    # of phenotypes    total combos

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_  
 # of genotypes    # of genotypes    total combos