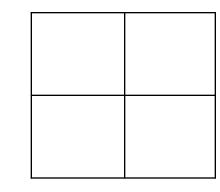
Monday February 13th

5.3 Part I Quiz on Thursday! <u>Conferences tomorrow & Thursday!</u>

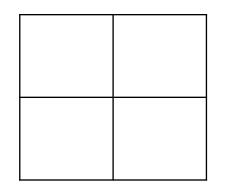
<u>Starter:</u>

For your fruit flies (you may need to check dominance & recessiveness!):

Cross a homozygous brown body with a heterozygous brown body.



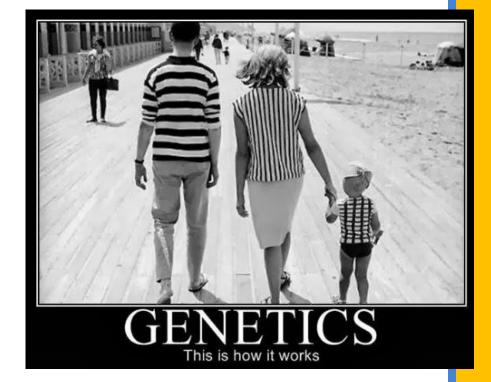
Cross a heterozygous curly-winged with a straightwinged fruit fly.



Patterns of Inheritance

Today's Objective:

• Given a possible genotype or phenotype, I can demonstrate all possible offspring results using Punnett squares

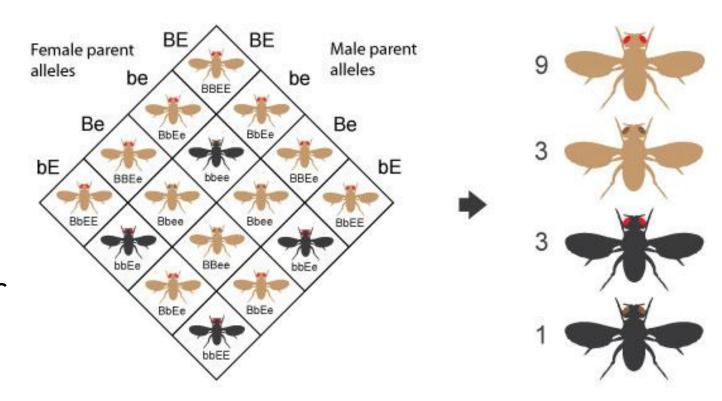


Patterns of Inheritance

Dihybrid Cross:

• "Cross" observing TWO genes

> Example: Fruit fly body color Fruit fly eye color



Patterns of Inheritance

Dihybrid Cross:

Must account for EVERY possible allele combination!

Male Parent Genotype: A B B B Male Allele Combos: AB B B

A a B b Female Allele Combos: AB ab aB Ab

Female Parent Genotype:

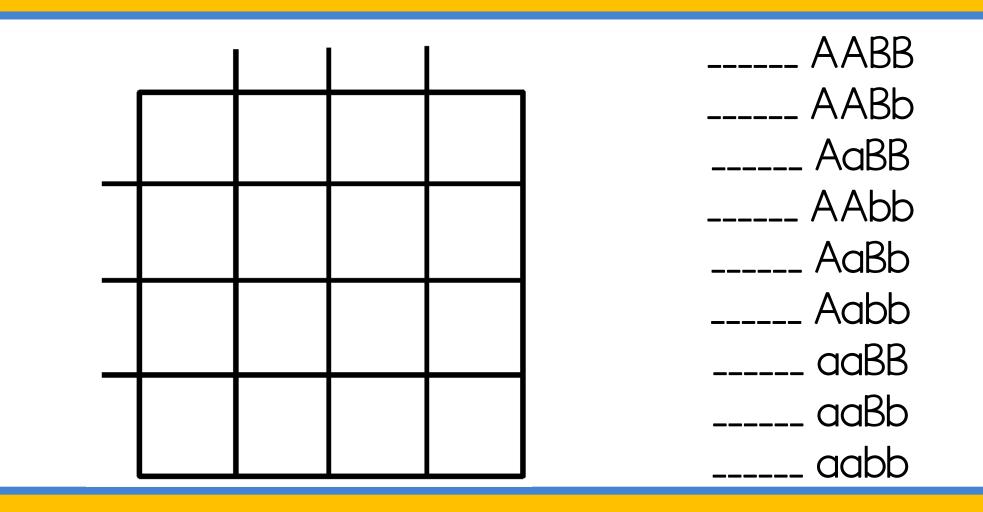
FOIL! First Outside Inside



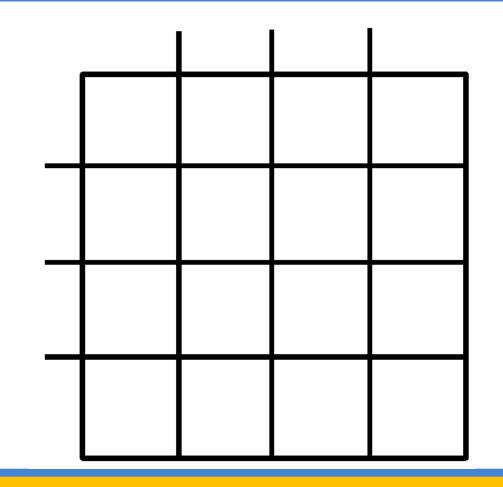
smiley face!

aB Ab

Patterns of Inheritance



Patterns of Inheritance



Example:

Parent Genotypes:

X

Patterns of Inheritance

RRCC:	Fraction:
RRCc:	Fraction:
rrcc:	Fraction :

	Percent:
1	Percent:
	Percent:
1	Percent:

Patterns of Inheritance

Red eyes/Curly Wings:_____Red eyes/Straight Wings:_____White eyes/Curly Wings:_____White eyes/Straight Wings:_____

Fraction:PFraction:PFraction:PFraction:PFraction:P

Perce	nt:
Perce	nt:
Perce	nt:
Perce	nt:

Patterns of Inheritance

Today's Objective:

 Given a possible genotype or phenotype, I can demonstrate all possible offspring results using Punnett squares

