

GoBio Interactive Worksheets

PATTERNS OF INHERITANCE

LET'S PLAY JEOPARDY! - Drag and Drop

Who Done It?	Plants and Pollen	Genotype and Phenotype	Dominance or Not
Monk who documented inheritance	Plants when bred to themselves will always produce organisms with same phenotype	Forms of a genes that determine a specific trait	The actual genetics of an organism
Plant that Mendel used in his experiments	When a flower pollinates itself.	Section of a chromosome that codes for a trait	Allele that is expressed when present
Job held by Mendel while studying genetics	Male gamete of a plant	Form of a trait that gets expressed	Allele that must be inherited from both parents to be expressed

Alleles Dominant Monk Phenotype
 Recessive Gregor Mendel Gene Pollen
 True-breeding Genotype Pea plant Self-pollenating

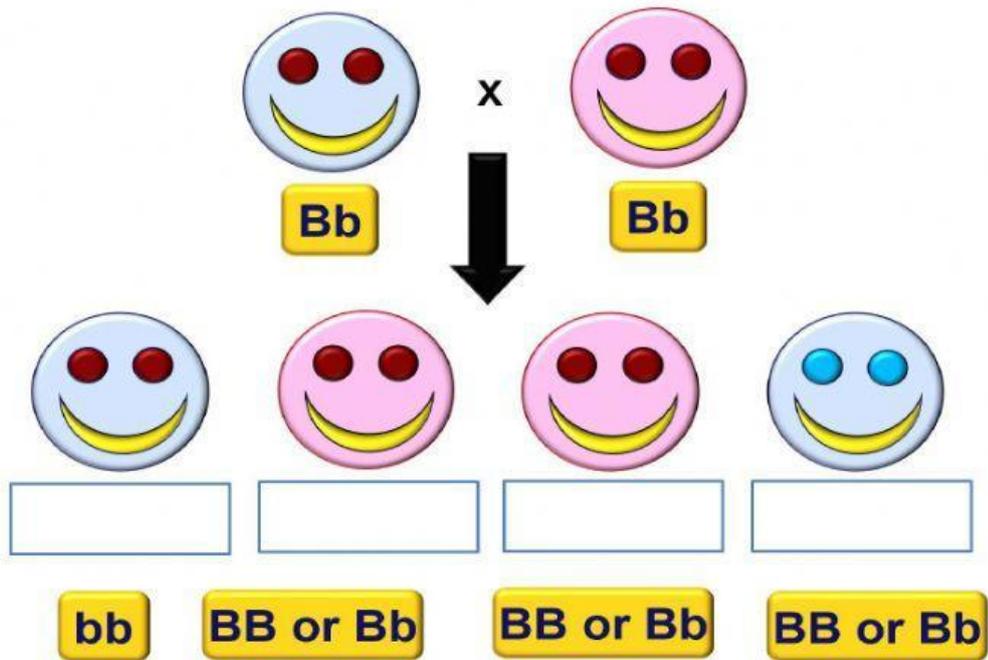
Homozygous dominant =

Homozygous recessive =

Heterozygous =

Ww **rr** **aa** **Ss** **Aa** **BB** **Yy** **Ee**
Tt **Bb** **RR** **bb**

Babies are Us! – Drag and Drop



Making gametes! Type in correct answers

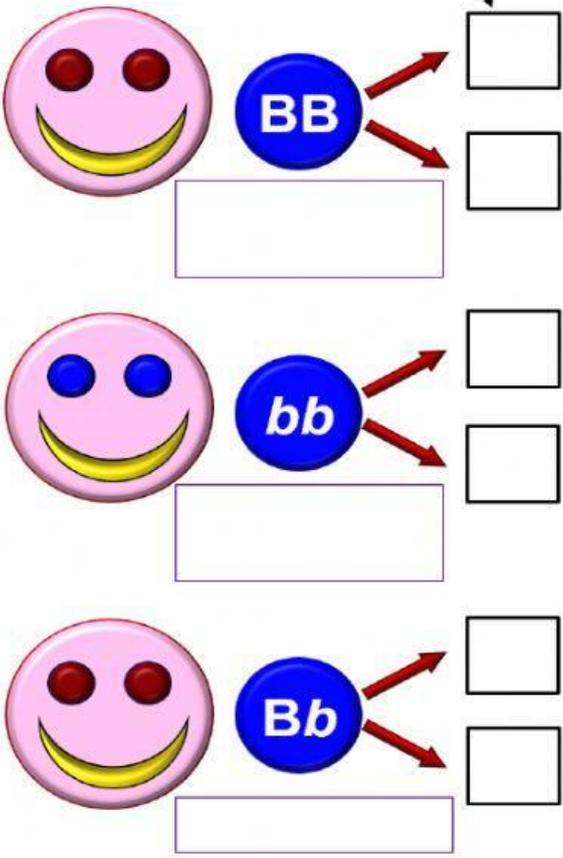
BB = brown eyes
 bb = blues eyes
 Bb = brown eyes

_____ = can mask others

_____ = can be hidden

→ brown is _____ over blue
 → blue is _____ to brown

Don't forget these!

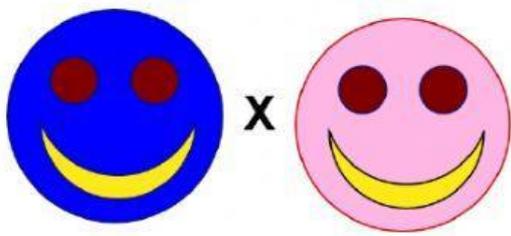


Punnett squares – drag and drop

Complete/Simple Dominance

Monohybrid Cross = 1 trait

Bb x Bb

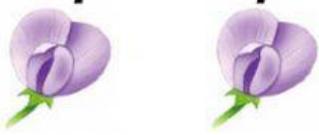


B	B	B	female / eggs	<input type="text"/>
b	b	b		<input type="text"/>
BB	BB	BB		<input type="text"/>
Bb	Bb	Bb		<input type="text"/>
bb	bb	bb		<input type="text"/>
				<input type="text"/>

male / sperm

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Pp x Pp



	<input type="text"/>	<input type="text"/>
<input type="text"/>		
<input type="text"/>		

	% genotype	% phenotype
PP	25%	75%
Pp	50%	
pp	25%	25%
	<input type="text"/>	<input type="text"/>

A red (R) rooster and a white (r) hen are mated. They produced four offspring: 2 reds and 2 whites. What are the genotypes of the parents?

Alleles

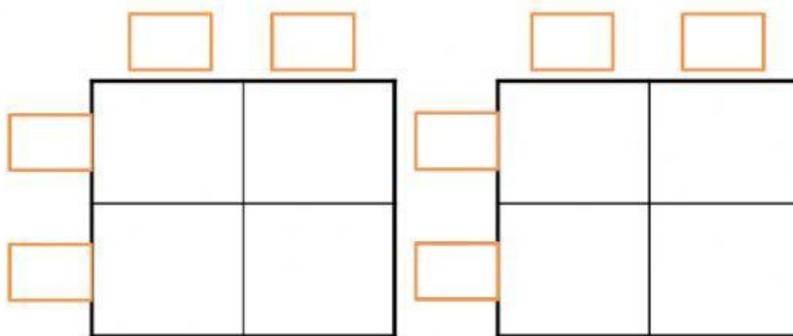
R = red

r = white

Possible parents

Male = _____

Female = _____



Your answer to the question: _____

[SUBMIT YOUR WORK VIA EMAIL OR GOOGLE CLASSROOM](#)