## Mon, Dec 18, 2017

## PICK up: handoruts

## Today you will:

- Check key to Dihybrid Punnett Square
- Cornell Notes on Incomplete Dominance \& Co Dom
- Amoeba Sisters nonmendelian inheritance
- Practice Incomplete dominance Punnett Squares
- Practice Co-dominance Punnett Squares

Homework/Planner:
Completeng 8

1.The GENOtype is rep. by Letters ?
2.The PHenotype is rep. by words? 3.Which is the genotype? Phenotype? Pink petals = Phenotype ?

$$
\text { R } \underline{r}=\text { Genotype ? }
$$

4. Tt means ? HeTeRozygous Tall = HyBriD
5. TT ? HOMOzygous Tall = PUREBRED 6. tt? Short.., is ithomozygous OR heterozygous short???

## TRUE/False

1. A segment of DNA is an allele.
2. A trait that is there, but MAY be masked by dominant trait is a recessive gene.
3. Two of the same alleles is hEtErOzygous. 4. The Law of Segregation states that genes MUSTstay together.
4. The genetic combination of an organism is called the Genotype.
5. A Punnett square is used to show definite traits of offspring.
6. Two different alleles for a trait is called HOMOzygous.
7. The physical characteristic of the organism is called the phenotype.
8. A recessive allele will show up if it is heterozygous.

## Moted 9514 page 8

 Incomplete Dominance intermediate trait $\rightarrow$ they blend or $M \mid X$ :Ex. S (straight hair) + (curly hair) = Wavy
Ex. T + S = Medium height plant
Ex. $R+W=$ one flower that is Pink


## Page $8 \rightarrow$ Cross 2 pink flowers:

RW $\times$ RW There is no dominance or recessiveness - the traits BLEND


## Woted page 8

## oDominance two tiaits show up equally:

> $\operatorname{Ex} \cdot \mathrm{R}+\mathrm{W}=$ red $A N \mathrm{D}$ white petals > Ex, $B+W=b \operatorname{lack} A N D$ white chicken


# Page $8 \rightarrow$ Cross a black chicken with a black \& white one: 

## $B B \times B W$ <br> Both traits show up EQUALLY.



## ncomplete Dominance

- IB po 219
- On notebookopaper
- Answer questions1-4 that perta in to the Fa mily's Hair (straightor c urly).

1. Father ${ }^{|s|} \mid$, Mother $|c| c$, Kathy \& brother Isc
2. $50 \%{ }^{|s| s}$ or $50 \%{ }^{|s| c}$
3. $\left.50 \%\right|^{|c| c}$ or $50 \%{ }^{|s| c}$
4. $25 \%$ |s|s, $\left.25 \%\right|^{|c| c}$ or $50 \%$ |s|c

## Co-Dominance

TB pg 205 BLOOD TYPE KEY - GENO TYPES $\quad$ - Detailed PHENOTYPES:

$$
\begin{array}{r|l}
\text { Iв } I \mathrm{~B}= & \text { Homozygous Type B } \\
\mathbf{I B} \mathbf{i}= & \text { Heterozygous Type B }
\end{array}
$$

$$
\mathbf{I}_{\mathrm{A}} \mathbf{I B}=\mid \quad \text { Type } \mathbf{A B}
$$

i i = Type O

$$
\begin{aligned}
& \text { IA } I^{A}=\text { - Homozygous Type A } \\
& I_{A_{i}}=\text { Heterozygous Type } A
\end{aligned}
$$

## Use the same format as we did for

 Monohybrid crosses.Except is blood type is Co-dominant
On notebook paper
Read about Codominance on TB pg 205

- Complete practice problems:

1. A male with AB Dood type ma mies a woman with O blood type. What is the probability of the offspling?
2. Heterozygous Type A blood $\mathbf{X}$ Heterozygous Type B blood
3. $A B \times A B$

Blood Type Questions...

1. A woman with Type O blood and a man who is Type $A B$ have are expecting a child. What are the possible blood types of the kid?


## Blood Type Question

2. What are the possible blood types of a child who's parents are both heterozygous for "B" \& heterozygous for "A" blood type?

$$
\mathrm{IA}_{\mathbf{i}} \quad \mathbf{X}
$$

## \#2. $\mathbf{I}_{\mathrm{i}}^{\mathrm{i}} \mathrm{I}^{\mathrm{I}_{\mathrm{i}}}$



