

## Fri, Jan 13, 2017

Pick up: none
Today you will:

- Review Co-dominance Practice Problems
- Practice Sex-linked Trait Punnett Squares

Homework/Planner:
Complete ISN pg 128 \& Qs 1-8 and 10-13 on white practice sheet
Study what we've covered so far.

## Nates $75 M$ page 129 oDominance two tirits show up equally:

> Ex. $R+W=$ red $A N D$ white petals
> Ex. $\mathrm{B}+\mathrm{W}=$ black $A N D$ white chicken


Page $129 \rightarrow$ Cross a black chicken with a black \& white one:

## $B B \times B W$

Both traits show up EQUALLY.


## Co-Dominance

## ISN p. 129 BLOOD TYPE KEY

 TXPES:
## - Detailed PHENOTYPES:

$$
\begin{aligned}
& \mathrm{A}_{\mathrm{A}}= \\
& \mathrm{IA}_{\mathbf{i}}=
\end{aligned} \begin{aligned}
& \text { - Homozygous Type } A \\
& - \text { Heterozygous Type } A
\end{aligned}
$$

$$
\mathbf{I A} \mathbf{I}^{B}=\quad \text { Type } \mathrm{AB}
$$

$$
\text { i i = } \quad \text { Type O }
$$

$$
\begin{aligned}
& \text { IB } I^{B}=\quad \text { Homozygous Type } B \\
& \mathbf{I B}_{\mathbf{i}}=\quad \text { Heterozygous Type B }
\end{aligned}
$$

## Use the same format as we did for

 Monohybrid crosses.
## pg 128

## Except is blood type is Co-dominant

Read abou'Codominance on TB pg 205

- Complete practice problems:

1. A male with $A B$ lood type marries a woman with oblood type. What is the probability of the offsping?
2. Heterozygous Type A blood X Heterozyoous 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 AB have are expecting a child. What are the possible blood types of the kid?

## \#1. ii $\times$ I $^{A} I^{B}$



## Genotype $\mid$ Phenotype <br> $\mathbf{I A}_{\mathbf{i}}=\mathbf{2} \quad$ Heterozygous Type A=50\% <br> Heterozygous <br> Type B = 50\%

ratio of $2: 2$

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


$\qquad$ 10. It was suspected that two newborn babies had been exchanged in a hospital. Mr. and Ms. Jones received baby \#1 and Mr. and Ms. Simms received baby \#2. Blood typing on the parents and the babies are shown in the following table.

## Blood Typing Results for Jones and Simms

| Mr. Jones: Type A $\left(1^{2} i\right)$ <br> Ms. Jones: Type B $\left(1^{3}\right)$ | Mr. Simms: Type AB $\left(\left.\left.\right\|^{1}\right\|^{3}\right)$ <br> Ms. Simms: Type O (ii) |
| :---: | :---: |
| Baby \#1: Type A | Baby \#2: Type 0 |

## Blood Type Reference Table

| Type A | $\left\|\left.\right\|^{A}\right\|^{A}$ or $A^{\mathrm{A}} \mathrm{i}$ |
| :--- | :--- |
| Type B | $\left.I^{\mathrm{A}}\right\|^{3}$ or $\left.\right\|^{8} \mathrm{i} i$ |
| Type AB | $\mathrm{A}^{\mathrm{A}} \mathrm{A}^{3}$ |
| Type 0 | ii |

Based on these blood typing results, were baby \#1 and baby\#2 switched at birth?
A. Yes; It is impossible for Mr. and Ms. Jones to have a baby with a Type A blood type.
B. Yes; It is impossible for Mr. and Ms. Simms to have a baby with a Type o blood type.
C. No ; It is impossible for Mr. and Ms. Jones to have a baby with a Type o blood type.
D. No; It is impossible for Mr. and Ms. Simms to have a baby with a Type A blood type.

