Study Guide - Unit 5 AP Biology

What was the answer to the example problem involving the multiplication rule? What was the answer to the example problem involving the addition rule?

The multiplication rule finds the probability of two _____ events occuring.

Explain the connection between	en alleles and genetic variat	ion and provide an example.	Created by Ria Wu
Senetics is the study of	and		
Traits are passed from parent	to offspring through		
What are homologous chromo Provide three differences beto		production	
Therd pair of chromosome	es in a are thedete	ermining chromosomes	
Match the correct genetic disc)	
 Trisomy 21. 	A. Du	to an extra X chromosome in the sec	c-determining chromosomes
Turner's Syndrome	B. A high pitched "cat-like" cry		
Cri du Chat	are expectation and an arrangement to the arrangement of the arrangeme		
4. Klinefelter's Syndrome		e to an extra chromosome in the 21st	chromosome pair
How many pairs of chromosor List three differences between			
The end result of meiosis is	garnetic and somatic cetts.		
What is a tetrad?			
Describe what the phase of m	eiosis the photos are depic	ting and describes what happens in ti	hat phase.
		200	
Control of the contro	E - 1		
and the same of th		3 2 2 2	
	The second secon		
A homozygous trait means tha A heterozygous trait means th			
Why did Mendel use true-bree		nts?	
Label the first pedigree. In the	next pedigrees, label them	as autosomal recessive, autosomal d	ominant, or sex-linked.
m-0 0-0	·	51.6 5.1.5	_° <u>I</u> -
0000000	 수단기 # 수 		
		5555 5	
.			■ •■ •□□•○□·○■•
Match the correct Principles of	of Heredity to its description	ns <u>= =</u>	• •••
L.Law of Segregation	A. This law states that	the inheritance of one gene does not	affect the inheritance of another gene
	nent B. This law states that	alleles are segregated during the inhe	eritance of allieles. A mother can only
3. Law of Dominance		nd a father can only pass down one a he dominant trait will cover the effec	
		he dominant trait will cover the effec	its of the recessive trait.
Which of the following statems			
A. Mitochondrial DNA is	B. Chloroplast DNA is	C. Chloroplast and Mitchondrial	D. Mitochondrial and Chloroplast
maternally inherited	maternally inherited	DNA is maternally inherited.	DNA is paternally inherited
Match the Degree of Dominan			
1. Complete Dominance		fominant and recessive traits are bot	
2. Incomplete Dominance	B. The dominant trait completely masks the effects of the recessive allele. C. The dominant trait and the recessive trait are expressed, but not fully		
3. Codominant Dominance			graph and the same production of an article and an experience
:-inactivation is when one of t kin Color is an example of	he chromosomes in the	cell becomes and turns into) a
Senetic recombination is when	an offspring is a or	phenotyppe from the	
Why are linked genes more like	By to be parental types and	why are unlinked genes more likely to	o be recombinant types?
What is the given value that Co	ollegeboard provides for the	e p-value in a Goodness of Fit test?	
A. 0.05	B. 0.01	C. 0.50	D. 0.10
		can impact the of those or	ganisms.
What do you do when the chi- L. Reject null hypothesis	B. Fail to reject null hypot	besis C. Accept the null hypot	hesis D. Fail to reject null hypothesi
Match the disease to its chara	cteristics (more than one a	nswer) A. Causes an abnormal amou	
1. Colorblindness		B. Causes a fatal buildup of f	ats or lipids in the brain
2. Hemophilia	at resimilating to distribute property		
3. Tay Sachs		 D. An inability to see colors p 	
4. Sickle Cell Anemia		 E. Caused by a mutation in th 	
		 F. Caused by a mutation in th 	e HBB gene

The addition rule finds the probability of two _____ _ events occurring.

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