AP Biology 054 – Population Variation Video Review Sheet

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1.	How is the "Devil Facial Tumor Disease" spread?		
2.	Why doesn't that type of transmittance occur with cancer in us?		
3.	Genetic Diversity and Extinction: a. Why did the Black Footed ferret appear extinct? (What didn't they have anymore)		
	b.	There population was so small a few could wipe them out.	
	C.	They went through a hugeneck	
4.	Genetic Diversity and Response:		
	a.	AIDS – in some areas, Sweden, up to% are immune to getting the virus	
	b.	What role do the CCR5 proteins play in this immunity?	
	C.	What diseases in the past could have put selection pressure that would increase the prevalence of this gene?	
	d.	It is hypothesized that if we came back 1000 years from now, what might we see in the allele frequencies? – What role does variability play in all this?	
5.	people delta32	ic Diversity and Hardy-Weinberg Equilibrium: Using his example as a review, how many might be "carriers" for the gene for resistance to HIV in the mid-range areas, at .09 for 2 variation? Show values for the following:	
	b.	p =	
	C.	carriers =	
6.	Variati	tion is, when we decrease variation we are more susceptible to:	