## Sex Iniked Trusks

1. a) What are the two sex chromosomes? and	
b) Which of these chromosomes is larger than the other?	
c) Sex linked traits are found only on the chromosome.	and the second of the second o
d) Since males only have one X chromosome they only need to have	Sorry, I'm colour-blind:

2. Cross a carrier (heterozygous) woman with normal vision with a colorblind man.  $X^BX^b \ \times \ X^b \, Y$ 

Legend X <sup>B</sup> X <sup>B</sup> -normal girl	Parents	Cross it	Offspring Genotype Possibilities	Offspring Phenotype Possibilities
_	$X_BX_P$			
X <sup>B</sup> X <sup>b</sup> - normal (carrier) girl	×		_	
$X^bX^b$ – colorblind girl	$X_p\lambda$			
X <sup>B</sup> Y - normal boy			_	
X <sup>b</sup> Y – colorblind boy				

3. Bill and Bertha want to know if they have a chance at passing on colorblindness to their kids. Bill and Bertha are not colorblind. However, Bertha's father was colorblind (she's a carrier).

Legend X <sup>B</sup> X <sup>B</sup> -	Parents	Cross it	Offspring Genotype Possibilities	Offspring Phenotype Possibilities
X <sup>B</sup> X <sup>b</sup> -				
X <sup>b</sup> X <sup>b</sup> -				
X <sup>B</sup> Y -				
X <sup>b</sup> Y -				

4. Hemophilia is a sex-linked trait. Sylvia knows that she is a carrier for the disease and that her husband is normal.

Legend	Parents	Cross it	Offspring Genotype Possibilities	Offspring Phenotype Possibilities
	$X^HX^h$			
	×			
	XHY			

5. Male pattern baldness is another recessive sex-linked trait. Wilbur's Mother is bald, and his father isn't. Cross Wilbur with a woman who is a carrier for baldness.

Legend	Parents	Cross it	Offspring Genotype Possibilities	Offspring Phenotype Possibilities
			_	
	-		_	



In male pattern baldness, hair recedes in an "m" shape, the crown bald patch eventually meeting the top points to form a horseshoe shape

