ne			Sex-Linked Traits Practice	Date
1.	Colori	olindness is a sex-linked recessi	ive trait. (B = dominant and b = recessive)	
	a.	What is the genotype of a fem	nale who is homozygous dominant for this trai	t?
	b.	What is the genotype of a carr	rier female?	
	с.	What is the genotype of a colo	orblind male?	
	d.	What is the genotype of color	blind female?	
	e.	What is the genotype of a mal	le who is not colorblind ?	
	f.	What is the genotype of a wor	man who is not colorblind? or	 .
	g.	What is the phenotype of a pe	erson who is X ^b X ^b ?	
	h.	What is the phenotype of a pe	erson who is X ^B X ^b ?	
	i.	What is the phenotype of a pe	erson who is X ^b Y?	
	j.	What is the phenotype of a pe	erson who is X ^B X ^B ?	
	k.	What is the phenotype of a pe	erson who is X ^B Y?	
	<u>Femal</u>	le Genotype:		
			Answer:	
	Male	e Genotype:		
3.		lorblind female and a male who plind? (make a punnett square)	o is not colorblind have a boy, what are the cha	ances that he v
	<u>Fema</u>	ale Genotype:		
			Answer:	
	Mal	<u>le Genotype:</u>		
		mation below to answer quest a (h), a recessive blood disorde		
	•		f "Carrier" females have a genor	type of
	- Norr	mal males have a genotype of _	Affected males have a genoty	pe of

5. A normal male marries a carrier female and has offsprinhemophilia? (H = normal and h=hemophilia)	g. What is the chance of the child having	
6. A man with hemophilia marries a normal (non-carrier) with the child having hemophilia? Explain your response.	voman and has offspring. What is the chance of	
H.S.A. Multiple Choice	e Practice	
1.What is the chance that parents will produce a child with XY chromosomes? A) 0% c. 25% B) 50% d. 100%	3. Genes carried only on an X-chromosome are said to be: A) Hybrid C) Dominant B) Segregated D) Sex-linked	
 2. Red-green color blindness affects about 7.0% of the human male population. It affects approximately 0.4% of the human female population. These data suggest that red-green color blindness is a A) dominant trait carried on the Y chromosome B) dominant trait carried on the X chromosome C) recessive trait carried on the Y chromosome D) recessive trait carried on the X chromosome 	4. Based on the pattern of inheritance known as sex linkage, if a male has hemophilia, how many genes for this trait are present in the sex chromosomes in each body cell? A) 1 C) 2 B) 3 D) 4	
1. A genetic disorder is sex-linked and is caused by a r condition (E) is dominant. A woman who is a carrier of couple would like to have a child but they are concern Genotype of female? Genotype of Male?	ecessive allele (e). The allele for the unaffected of the disorder marries an unaffected man. The	
SEX-LINKED CHALLENGE PROBLEM: 3. Which parental pair will produce a colorblind female? a) homozogyous normal-vision mother and a colorblind father b) colorblind mother and normal-vision father c) heterozygous normal-vision mother and normal-vision fath d) heterozygous normal-vision mother and colorblind father		