Name Genet		 ctice 4: l	 Probability						Date	:	
1.	In humans, curly hair is dominant over straight hair. A woman heterozygous for hair curl marries a man with straight hair and they have children.										
	a.	What i	s the genoty	ype of the	mother?						
	b.	What g	gametes can	ı she prod	luce?						
	c.	What i	s the genoty	ype of the	father?						
	d.	What g	gametes can	ı he produ	ıce?						
	e.	What i	s the proba	bility that	their firs	st child will h	ave	curly ha	air?		
	f.	What is	s the proba	bility that	their sec	cond child wi	ll ha	ave curly	hair?		
2.	List all the gametes that are possible with each of the following genotypes:										
	a.	Aabb					d.	AABb			
	b.	AaBB					e.	AAbb			
	c.	AaBb					f.	aabb			
3.	What is the probability of getting the gamete (ab) from each of the following parents?										
	a.	Aabb					d.	AABb			
	b.	aaBb					e.	AAbb			
	c.	AaBb					f.	aabb			
4.	you w	ould do 1		ne the gen	otype of	lominant ove a male with a s BB or Bb.					

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Genetics Practice 4: Probability5. What is the probability of each of the following sets of parents producing the given genotypes in their offspring?								
Parents' Genotype	Offspring Genotype	Probability						
Аа х Аа	Aa							
Aa x aa	Aa							
AaBb x AaBB	AABB							
AaBb x AABb	aabb							
AaBb x AaBb	AaBb							
have produced this of7. In corn, the trait for offor colored kernels (corn plants, the prob	offspring has the genotype Aa, what possible combinations of parental genotypes couproduced this offspring? rn, the trait for tall plants (T) is dominant to the trait for dwarf plants (t) and the trait plants (C) is dominant to the trait for white kernels (c). In a particular cross of plants, the probability of an offspring being tall is 1/2 and the probability of a kernel golored is 3/4. Which of the following most probably represents the parental type?							
a. TtCc x ttCc								
b. TtCc x TtCc								
c. TtCc x ttcc								
d. TTCc x ttCc								
e. TTCc x TtCC								
8. In humans, the allele	humans, the allele for albinism is recessive to the allele for normal skin pigmentation.							
	If two heterozygous parents have children, what is the chance that the child will be albino?							
	normal, what is the chance that it neterozygous) for the albino allele?							

c. If normal parents have an albino child, what is the probability that their next child will be normal for pigment?