Name		Date:				
Genet	ics Practice 3: Advanced Mendelian Genetics					
Incom	plete Dominance					
	In radishes, the gene that controls color exhibits incomplete dominant radishes crossed with pure-breeding white radishes make purple radishes and phenotypic ratios when you cross a purple radish with	ishes. What are the				
Codor	ninance					
	Certain breeds of cattle show codominance in coat color. When pure	broading rad cowe are				
۷.	bred with pure breeding white cows, the offspring are roan. Summar phenotypes of the possible offspring when a roan cow is mated with a	ize the genotypes and				
3.	A man with type AB blood marries a woman with type B blood. Her n blood. List the expected phenotype and genotype frequencies of their					
4.	The father of a child has type AB blood. The mother has type A. Which blood types can their children NOT have?					
5.	A woman with type A blood and a man with type B blood could potentially have offspring with what blood types?					
6.	The mother has type A blood. Her husband has type B blood. Their child has type O blood. The father claims the child can't be his. Is he right?					
7.	The mother has type B blood. Her husband has type AB blood. Their child has type O blood. The father claims the child can't be his. Is he right?					

vame: Geneti		3: Advance	d Mendelian Genetics	Date:		
8.	His mother		B blood. The father has type B b lood. What are all the possibilit dren?			
Lethal	Dominant					
	Achondroplasia (dwarfism) is caused by a dominant allele. A woman and a man both with dwarfism marry. If homozygous achondroplasia results in death of embryos, list the genotypes and phenotypes of all potential live-birth offspring. What is the expected ratio of dwarfism to normal offspring?					
<u>Sex-Li</u> 10.	The genes the possible		and phenotypes of the children	ome. It is a recessive disorder. List from a man normal for blood clotting		

Dihybrid

11. Remember those roan cows from question 2? They also have a second gene for horn versus hornless cattle. The allele for horns dominates the allele for hornless. If a bull and cow are heterozygous for <u>both genes</u>, what are the probabilities for each possible phenotype?