	Name:
	Monohybrid Cross Problems
1.	A homozygous tall plant (TT) is crossed with a heterozygous plant (Tt). a. What are the allele combinations in the gametes of the homozygous plant? b. Heterozygous plant? c. What are the genotypes and phenotypes of the offspring? Draw a Punnett square.
2.	A homozygous red flowered plant (RR) is crossed with a homozygous white plant (rr). a. What are the allele combinations in the gametes of the red flowered plant? b. White flowered plant? c. What are the genotypes and phenotypes of the offspring? Draw a Punnett square.
3.	A man with hitchhiker's thumb (Hh) and his wife who also has hitchhiker's thumb (Hh) are expecting a child. a. What are the allele combinations in the man's gametes? b. Woman's gametes? c. What is the probability that the child will also have hitchhiker's thumb? Draw a Punnett square.
4.	A dog with black fur (BB) is crossed with a dog who is heterozygous for black fur (Bb). a. What are the allele combinations in the BB dog's gametes? b. Bb dog's gametes? c. What is the probability that the offspring will have white fur (bb)? Draw a Punnett square.
5.	A woman with a widow's peak (AA) marries a man without a widow's peak (aa). a. What are the allele combinations in the woman's gametes? b. Man's gametes? c. What are the genotypes and phenotypes of the offspring? Draw a Punnett square.