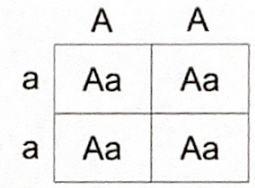
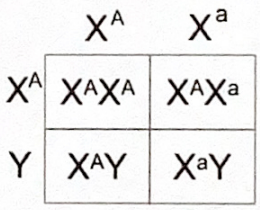
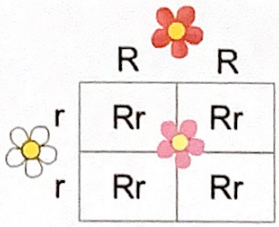
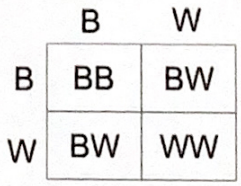
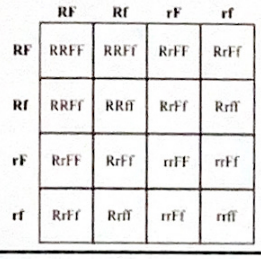
Punnett Square CHEAT Sheet

Form of Inheritance	Things to look for:	Sample Punnett Square	Example
Normal (Mendelian)	• One trait is listed with two alleles (Ex: Hairline- widow's peak vs. straight) • Affects males and females equally • Use the same letter on the Punnett square (Ex: Aa)		Dimples dominant over no dimples
Sex-Linked	• Males are affected more than females because they only have 1 X chromosome • Use X^AX^A for females • Use X^AY for males • Use the same letter for the trait (Yes: X^AX^A , NO: X^AX^B)		Colorblindness in boys
Incomplete Dominance	• One dominant allele is not strong enough to overpower the recessive allele. • Use the same letter on the Punnett square, with heterozygous phenotypes being a blend.		Red flower + white flower = Pink flowers
Co-Dominance	• Both alleles are dominant so they both show up in the phenotype • Use two capital letters in the Punnett square • Use different capital letters on the Punnett square (Ex: AB)		White chicken + black chicken = Black and white speckled chicken
Dihybrid	• Two different traits are given, so the genotypes include 4 letters • Distribute the genotypes to get 4 gametes for each parent • Keep the same letters paired together (YES: AaBb, NO: Abab)		Round yellow peas vs. wrinkled green peas