## Sample Public Genetic Crosses

In humans, normal color vision (R) is dominant to color blindness (r). This is a sex-linked trait (X-linked). Brown eye color (B) is dominant to blue eye color (b). If a color blind, heterozygous brown-eyed female mated with a normal, blue-eyed male, what percentage of the offspring would be color blind, blue-eyed males? Show your workings.

In a cross between two pea plants, $50 \%$ of the offspring were tall and $75 \%$ had round seeds. If tallness $(T)$ is dominant to dwarfness $(t)$ and round seeds $(R)$ are dominant to wrinkled seeds $(r)$, what are the genotypes of the parents? Show all your workings.

