**Genetics Practice Problems**

1. **A mother with type AB blood has a child with a man who has type O blood. What is the genotypic ratio of the potential offspring? What is the probability that the child has type A blood?**
2. **A red flower is crossed with a white flower to produce pink flowers. Show the Punnett Square of this cross and state what inheritance pattern this cross demonstrates.**
3. **Patty is a color-blind female due to a sex-linked recessive disorder. Patty’s husband has normal vision. What is the probability that their daughter or son will be color-blind?**
4. **A short plant (tt) and a heterozygous tall plant are crossed. What are the possible genotypes and phenotypes of this cross? What are their ratios?**
5. **A woman who is a carrier for baldness marries a man who is not bald. What are the potential phenotypes of this cross?**
6. **A black cat crosses with a white cat to produce spotted offspring. Show the Punnett Square of this cross and state what inheritance pattern this cross demonstrates.**