Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hour:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Punnett Square Practice**

In sheep, the white wool allele (W) is dominant over the black wool allele (w). Using a Punnett Square, predict the outcome of the following genetic crosses.

WW x ww

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|  |  |

1. What color wool did the parents have? Parent 1: \_\_\_\_\_\_\_\_\_\_\_\_ Parent 2: \_\_\_\_\_\_\_\_\_\_\_
2. What are the chances that the possible offspring will have black wool? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ww x Ww

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1. What is the ratio of the phenotypes of the offspring? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the ratio of the genotypes? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In pea plants, round seeds (R) are dominant over wrinkled seeds (r).

RR x Rr

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1. What are the chances of getting round seeds? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What percentage of the offspring will be heterozygous? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In human eye color, brown (B) is dominant over everything, green (G) is only dominant over blue (b).

BbGg x Bbgg

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1. Write the correct phenotype inside each cell in the Punnett Square.
2. What are the chances that these parents will have a child with blue eyes? \_\_\_\_\_\_\_\_\_\_\_\_
3. What are the chances that their child will have green eyes? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What eye color is most likely to show up in their child? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_