Science-7 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_

Mr. Roach / Ms. Wulfow

Probability & Genetics

{Ch.4, sec.2}

The allele for kidney-shaped nostrils (*K*) is dominant over the allele for round nostrils (*k*) in humans. Given the following ***genotypes***, determine the appropriate ***phenotypes***.

|  |  |
| --- | --- |
| Genotype | Phenotype |
| *Kk* |  |
| *kk* |  |
| *KK* |  |

The allele for round shaped eyes (*a*) is recessive and the allele for almond shaped eyes (*A*) is dominant. Given the following ***genotypes***, determine the appropriate ***phenotypes***.

|  |  |
| --- | --- |
| Genotype | Phenotype |
| *rr* |  |
| *RR* |  |
| *Rr* |  |

The allele for black hair (*HB*) is codominant with the allele for tan hair (*HT*) in dogs. Given the following ***genotypes***, determine the appropriate ***phenotypes***.

|  |  |
| --- | --- |
| Genotype | Phenotype |
| *HBHT* |  |
| *HBHB* |  |
| *HTHT* |  |