Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Block:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Non-Mendelian Inheritance!**

1. A. What is the **phenotypic** ratio of the offspring for the cross shown below in traditional Mendelian inheritance? (Rr x Rr)

B. What is the **phenotypic** ratio of the offspring for this cross in a case of Incomplete Dominance?

R r

|  |  |
| --- | --- |
| RR | Rr |
| Rr | rr |

2. How does inheritance through **multiple alleles** differ from **polygenic inheritance**?

3. Incomplete Dominance: Give the phenotypes and genotypes of the offspring resulting from a cross between a homozygous red snap dragon and a heterozygous snap dragon.

4. Codominance: A black chicken (BB) is crossed with a white chicken (WW). Give the phenotypic and genotypic ratios of **both the F1 generation and the F2 generations**.