

Name \_\_\_\_\_

### Dragon Genetic

Directions: For each of the word problems below, create your own allele for each of the dragon traits. You must show a Punnett Square for your work!



1. In dragons, the allele for fire breathing is dominant. Dragons can be [fire breathers](#), or non fire breathers. Show the genotypes and phenotypes of all possible dragons.
2. If a heterozygous fire-breathing dragon is crossed with one that does not breathe fire, how many offspring will be fire breathers?
3. If two heterozygous dragons are crossed, how many offspring would you expect to NOT be fire-breathers?
4. Also in dragons, wings are a dominant trait. If you crossed two wingless dragons, how many of their offspring would you expect to have wings?

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5. Two winged dragons produce an offspring that does not have wings. What are the genotypes of the parents?
  
  
  
  
  
  
  
  
  
  
6. If a purebred [winged dragon](#) is crossed with a purebred wingless dragon, how many of their offspring will be winged and what is their genotype?
  
  
  
  
  
  
  
  
  
  
7. A dragon with wings (Dd) is crossed with ones that does not have wings. What percentage of their offspring will be wingless?

