

Genetics Practice Problems Worksheet

Name \_\_\_\_\_ Period \_\_\_\_\_

1. For each genotype below, write whether it is Heterozygous (HE), Homozygous Dominant (HD) or Homozygous Recessive (HR).

AA HD      Ee \_\_\_\_\_      Ii \_\_\_\_\_      MM \_\_\_\_\_  
Bb HE      ff \_\_\_\_\_      Jj \_\_\_\_\_      nn \_\_\_\_\_  
cc HR      Gg \_\_\_\_\_      kk \_\_\_\_\_      oo \_\_\_\_\_  
DD \_\_\_\_\_      HH \_\_\_\_\_      LL \_\_\_\_\_      Pp \_\_\_\_\_

2. For each of the traits listed, determine which letter would be used.

Green is dominant to brown G  
Red is dominant to white \_\_\_\_\_  
Purple is dominant to yellow \_\_\_\_\_  
Round is dominant to square \_\_\_\_\_

3. For each of the **genotypes** below, determine and write the **phenotype**.

Purple flowers are dominant to white flowers.  
PP purple      Pp \_\_\_\_\_      pp \_\_\_\_\_  
Brown eyes are dominant to blue eyes.  
BB \_\_\_\_\_      Bb brown      bb \_\_\_\_\_  
Round seeds are dominant to wrinkled seeds.  
RR \_\_\_\_\_      Rr \_\_\_\_\_      rr wrinkled  
Tall is dominant and short is recessive.  
TT \_\_\_\_\_      Tt \_\_\_\_\_      tt \_\_\_\_\_