

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 \_\_\_\_\_