

Name \_\_\_\_\_ Per \_\_\_\_\_ Date \_\_\_\_\_

Monohybrid Practice Problems

1. In fruit flies, normal wings (W) is dominant over vestigial wings (w). The results of a cross of two flies gives the following offspring:

<b>Normal Wing</b>	793
<b>Vestigial Wing</b>	811

What was the genotype of the parents of these F1 offspring? Use a Punnett square to support your answer.

2. In fruit flies the eye color is controlled by genes. Red is dominant to white. Find the possible eye colors of the F1 generation for each of the following crosses. Use the five-step format given in class to solve each problem. (the first one is set up for you)

A)  $Rr \times rr$

1) Symbols:

4) fill out the square:


2) genotypes of parents

3) possible gametes

5) Phenotypic and genotypic ratios:

B)  $rr \times RR$

C)  $Rr \times Rr$

3. Circle the crosses that are possible (i.e. are written correctly) from the list below, and then complete them below using Punnett squares, solved using the five-step format given in class.

A.  $Ww \times RR$

B.  $WW \times Ww$

C.  $RW \times rw$

D.  $Rr \times RR$

E.  $Ww \times Ww$

F.  $WR \times rr$

G.  $Wwr \times Rrw$