

## Monohybrid Practice Problems

Biology A

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

1. For each problem, carry out the following steps:
  - a. Make a Punnett square for the cross described
  - b. Write the genotype and phenotype ratios

In fruit flies, eye color is controlled by genes. Red is dominant to white.

i.  $Rr \times rr$

ii.  $rr \times RR$

iii.  $Rr \times Rr$

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

Normal wing	793
Vestigial wing	811

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

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3. Circle the crosses that are possible (i.e., are written correctly) from the list below, and then complete them below using Punnett squares. Give the genotype and phenotype ratios for each.

- 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.  $Wwr \times Rrw$