

**GENETICS WORKSHEET ANSWER SHEET**

**NOTE: Pages 1 & 2 are not included here since there are no problems on these pages.**

Section I: Monohybrid Crosses

1. In tomatoes, red fruits are dominant over yellow fruits.

A. What letter would you choose to represent the red and yellow alleles.

RED ALLELE =   R        YELLOW ALLELE =   r  

The image shows a genetics worksheet with handwritten answers and diagrams. At the top, it says "RED ALLELE = R" and "YELLOW ALLELE = r". Below this, there are several pedigree charts and Punnett squares. The text is partially obscured by a dark overlay at the bottom.

1. In tomatoes, red fruits are dominant over yellow fruits.

A. What letter would you choose to represent the red and yellow alleles.

RED ALLELE =   R        YELLOW ALLELE =   r  

3. Brown eyes are a dominant eye-color allele and blue eyes are recessive. A brown-eyed woman whose father had blue eyes and whose mother had brown eyes marries a brown-eyed man whose parents are also brown-eyed. They have a son who is blue-eyed. Please draw a pedigree showing all four grandparents, the two parents, and the child. What is Gerdy's genotype?

(b) Show the Punnett square for his marriage.

(c) Complete the Punnett square to show the possibilities that would result if Buffy is BB & Gerdy had...

(d) List the possible genotypes and phenotypes for the kids.