

SECTION 4 - 1

REVIEW AND REINFORCE

Human Inheritance

◆ Understanding Main Ideas

Fill in the Punnett squares for dimples, a trait controlled by a dominant allele (A), and colorblindness, a trait controlled by a recessive sex-linked allele (B). Then answer the questions that follow.

A: Dimples

	<i>D</i>	<i>d</i>
<i>d</i>	1. _____	2. _____
<i>d</i>	3. _____	4. _____

5. Does either the mother or the father in A have dimples?

6. What percentage of children are likely to have dimples?

B: Colorblindness

	<i>X^c</i>	<i>Y</i>
<i>X^C</i>	7. _____	8. _____
<i>X^c</i>	9. _____	10. _____

11. Is either the mother or father in B colorblind?

12. What percentage of female children are likely to be colorblind?

13. What percentage of male children are likely to be colorblind?

◆ Building Vocabulary

Fill in the blank to complete each statement.

14. Three or more forms of a gene that code for a single trait are called _____.

15. _____ are alleles passed from parent to child on a sex chromosome.

16. A(n) _____ is a person who has one recessive allele for a trait and one dominant allele for the same trait.

17. A(n) _____ is a chart that tracks which members of a family have a particular trait.