



Name

Period

Date

SECTION

7.2

COMPLEX PATTERNS OF INHERITANCE

Reading Guide

KEY CONCEPT

Phenotype is affected by many different factors.

VOCABULARY

incomplete dominance

codominance

polygenic trait

MAIN IDEA: Phenotype can depend on interactions of alleles.

1. How is incomplete dominance different from a dominant and recessive relationship?

2. How is codominance different from a dominant and recessive relationship?

3. What is a multiple-allele trait?

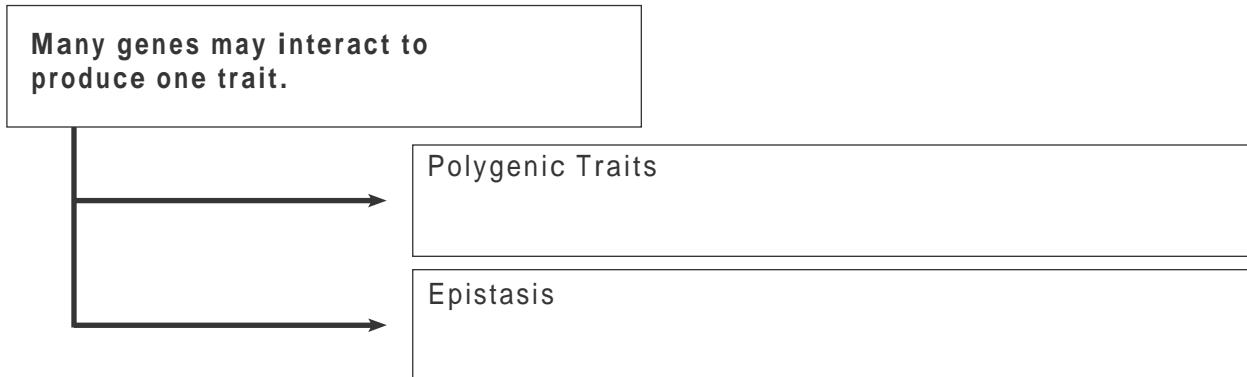
In the table below, describe how phenotypes appear in incomplete dominance and codominance. Then sketch an example of each.

Interaction	Phenotype	Example
Incomplete dominance	4.	5.
Codominance	6.	7.

READING GUIDE, CONTINUED

MAIN IDEA: Many genes may interact to produce one trait.

Use the chart below to take notes on polygenic traits and epistasis.



MAIN IDEA: The environment interacts with genotype.

8. Why is genotype not the only factor that affects phenotype?

9. List and explain two examples of how environment and genotype can interact.

Vocabulary Check

10. The prefix *in-* means “not.” How is the meaning of this prefix related to the meaning of *incomplete dominance*?

11. The prefix *co-* means “together.” How is the meaning of this prefix related to the meaning of *codominance*?

12. The prefix *poly-* means “many,” and the term *genic* means “related to genes.” How do these word parts combine to give the meaning of *polygenic*?
