Name	Date	Class
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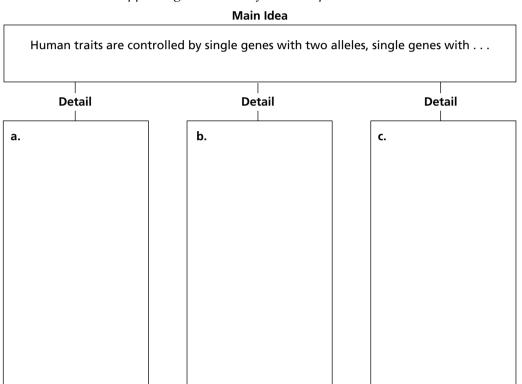
Modern Genetics • Guided Reading and Study

## **Human Inheritance**

This section explains some patterns of inheritance in humans. It also describes the functions of the sex chromosomes and the relationship between genes and the environment.

## **Use Target Reading Skills**

As you read, write the main idea—the biggest or most important idea—in the graphic organizer below. Then write three supporting details that further explain the main idea.



## **Patterns of Human Inheritance**

1. The probability that two heterozygous parents for widow's peak will have a child with a straight hairline is \_\_\_\_\_\_ percent.

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H	uman Inheritance (continued	<b>!</b> )			
2.	A gene with three or more alleles for a single trait has				
3.	Is the following sentence true or false? Even though a gene has multiple alleles, a person can carry only two of those alleles				
4.	Complete the table by writing all blood type.	possible combination	ons of alleles for each		
	Blood	Types			
В	lood Type	Combination of A	Alleles		
A					
В					
A	В				
О					
5.	Why do some human traits, such number of phenotypes?	as height and skin	color, show a large		
6.	Is the following sentence true or than one gene.		ontrolled by more		

Jama Oarratiaa - Cuidad				
dern Genetics • Guidea	Reading and Study			
Sex Chromosomes				
<u>e</u>				
have one	chromosome	omosomes. Males e and one		
	_	human sex		
<ul><li>b. Half of a male's sperm c</li><li>c. None of a male's sperm</li></ul>	ells have an X chromoso cells have a Y chromoso			
Genes on the X and Y chromosomes are called				
. Why are males more likely than females to have a sex-linked trait that is recessive				
<b>U</b> 1		or colorblindness is		
Why is a son who receives always colorblind?	the allele for colorblind	ness from his mother		
: Effect of Environmen	t			
The effects of genes are often	en altered by the	·•		
List one environmental fac	tor that can affect a pers	son's height.		
	Is the following sentence to determine whether a baby Females have twohave one Circle the letter of each senchromosomes.  a. All eggs carry one X chrob. Half of a male's sperm of the egg determines the egg de	Is the following sentence true or false? Genes on condetermine whether a baby is a boy or a girl		