Genetics

More About Traits & Genetic Variation

Use Chapter 6, Section 2 to answer the questions below.

More About Traits (p.184) One Gene, Many Traits

One Gene, Many Traits		Section 12
1. In Mendel's studies, how many genes contro	olled a particular trait?	COOIClips.com
2. Look at Figure 5. For the tiger, one gene co	ntrols both	color and
color.		
3. Sickle-cell anemia, shown in Figure 6, is a g	enetic	·
4. Some genetic disorders, like sickle-cell aner of a single gene.	nia, can be caused by	an error on an
Many Genes, One Trait (p.185)		
5. What causes the many shades of a s	ingle human eye color	r?
a. one gene acting alone	c. two genes from each parent	
b. one gene from each parent	d. several genes ac	cting together
6. Multiple genes can affect	traits, like ho	ow your body breaks down food.
The Importance of Environment (p.185)		
7. What is one example of an internal er	nvironmental condition	n that influences height?
a. heavy clothing b. nutrition		d. exposure to sunlight
8. Look at Figure 8. Why are the grassh	nonners different color	re?
a. they are different species	Toppero amerent color	
b. one is male and the other is female		
c. they ate different food when they we		
d. the genes that control their coloring	are αιπerent	
Genetic Variation (p.186)		
9. Scientists estimate humans have approxima	itely	_ genes.
10. People do not look identical to each other b	because they have diff	ferent sets of
11 is the differences	in sets of alleles betw	veen individuals in a population.
12. Look at Figure 9. Genetic variation has car	used the snakes to be	e different
13. What kind of traits do genes affect?		
a. traits caused by the environment		
b. only traits you can't see	_	
 c. traits you can see and traits you can 	ı't see	

Name:

Period:

d. only traits you can see