Genetics	Name:
Changes in Genes	Period:

Use Chapter 7, Section 2 of your textbook to answer the questions below.

1. Changing just one	in a sentence	can change the me	aning of the sentence.
2. A is	a change in how the bases in	n a DNA sequence a	are arranged.
How Do Mutations Happen? (p	0.216)		
3. Mutations can happen when [	DNA is	before the cell d	ivides.
4. Lots of mutations are the resu	lt of	_ errors that happer	during DNA copying.
5. DNA can also be damaged by	things in the	around th	ne organism.
6. What are things in the environment that can cause mutations called? a. DNA b. proteins c. nucleotides d. mutagens			
7. Which of the following a. asbestos b. ciga	is NOT a mutagen? arette smoke c. protein	d. sunlight	
Do Mutations Matter? (p.217)			
Match the correct description with the correct term. Write the letter in the space provided.			
8. kind of mutation that makes it easier to survive a drought a. harmful trait		a. harmful trait	
9. kind of mutation that do	pes not change the protein a	gene codes for	b. improved trait

\_\_\_\_\_ 10. kind of mutation that makes it easier to be found by a predator c. no change

base sequence in original cell with original DNA	base sequence in cell with mutated DNA
C G	C G
T A	T A
A T	A T
C G	A T
G C	G C
A T	T A
T A	T A

Look at the table to the left. Circle the two mutations that happened when the original cell duplicated its DNA to prepare for mitosis.

