

# Genetics

Name:

## DNA Structure Practice Questions

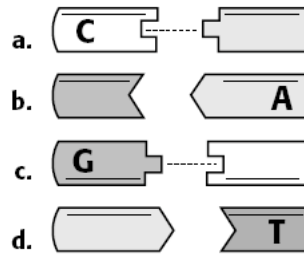
Period:

Try these practice questions by first using just your brain. Then make sure you got the answers right by checking in Chapter 7.

- \_\_\_\_\_ 1. What does DNA look like?  
a. a ball      b. a straight line      c. links in a chain      d. a twisted ladder
- \_\_\_\_\_ 2. When a DNA molecule is going to be copied, how does it split?  
a. across the top      b. down the middle      c. along the sides      d. across the bottom
- \_\_\_\_\_ 3. The amount of adenine in DNA is always equal to the amount of  
a. thymine.      b. uracil.      c. guanine.      d. cytosine.
- \_\_\_\_\_ 4. A DNA molecule is split and the bases on each side are used as a pattern for a new strand when DNA is...  
a. replaced.      b. mutated.      c. complemented.      d. replicated.

Match the missing base-pair labels to the figure of the DNA sequence. Write the letter in the space provided.

- \_\_\_\_\_ 5. has a blank space for T
- \_\_\_\_\_ 6. has a blank space for A
- \_\_\_\_\_ 7. has a blank space for G
- \_\_\_\_\_ 8. has a blank space for C



- \_\_\_\_\_ 9. What does DNA look like when a cell is not getting ready to duplicate?  
a. it is floating in the cytoplasm  
b. it is bound up in chromosomes  
c. it is in chromatin in the nucleus  
d. it is paired in chromatids
- \_\_\_\_\_ 10. What happens when base sequences are not copied correctly when a cell duplicates its DNA?  
a. a separation      b. a mutation      c. a mitosis      d. a coiling
- \_\_\_\_\_ 11. Which statement is NOT true about mutations?  
a. mutations can be harmful  
b. mutations can be helpful  
c. mutations can have no effect  
d. all statements are correct