



Name _____

Period _____

Date _____

CHAPTER 5

CELL GROWTH AND DIVISION
Vocabulary Practice

- | | | |
|-------------|---------------|----------------------|
| cell cycle | prophase | metastasize |
| mitosis | metaphase | carcinogen |
| cytokinesis | anaphase | asexual reproduction |
| chromosome | telophase | binary fission |
| histone | growth factor | tissue |
| chromatin | apoptosis | organ |
| chromatid | cancer | organ system |
| centromere | benign | cell differentiation |
| telomere | malignant | stem cell |

A. Analogy Vocabulary Set Write the numbers of the definitions and analogies next to each word.

DEFINITIONS

WORD

ANALOGIES

- | | | |
|---|--------------------------------------|---|
| D1. makes offspring from one parent | 1. benign _____ | A1. a twisty tie |
| D2. protein that DNA wraps around | 2. chromatin _____ | A2. weeding |
| D3. loosely organized combination of DNA and proteins | 3. asexual reproduction _____ | A3. fertilizer |
| D4. constricted region of DNA where sister chromatids are attached | 4. organ system _____ | A4. making a copy |
| D5. tumor that remains in a clump | 5. centromere _____ | A5. the cardboard tube inside a roll of toilet paper |
| D6. group of organs that work together to carry out a complex function | 6. apoptosis _____ | A6. the United Nations |
| D7. programmed cell death | 7. growth factor _____ | A7. a shy person who won't leave the house |
| D8. stimulates cell division | 8. histone _____ | A8. tangled yarn |

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CHAPTER 5
Cell Growth and Division

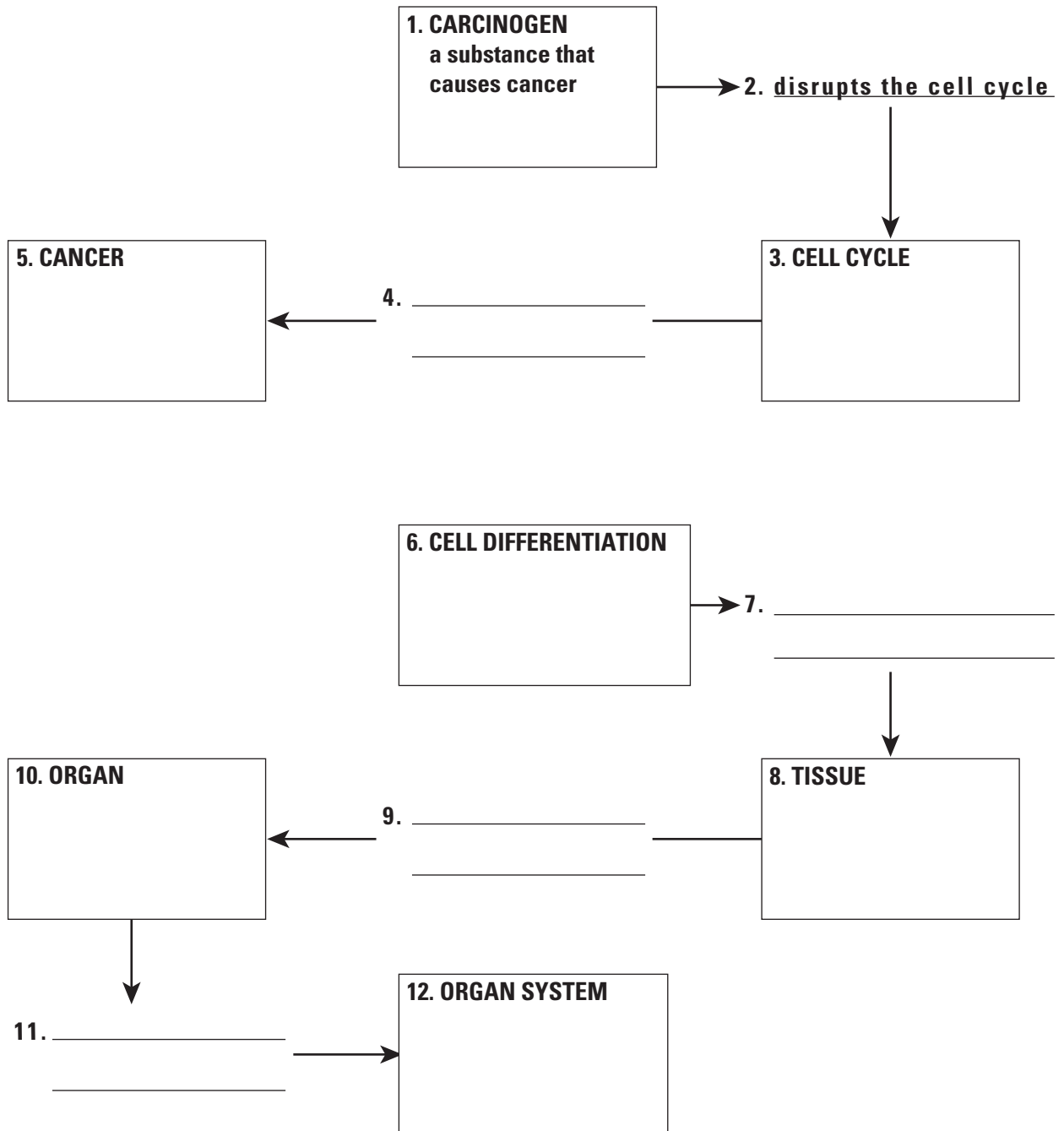
VOCABULARY PRACTICE, CONTINUED

B. Compound Word Puzzle Read the phrase and write the word that it most closely describes. Then write another phrase that describes the same word in a different way.

PHRASE 1	WORD	PHRASE 2
one half of a condensed, duplicated chromosome	Example <i>chromatid</i>	<i>separates from sister chromatid during anaphase in mitosis</i>
first phase of mitosis	1.	
may be categorized as totipotent, pluripotent, or multipotent	2.	
duplicated chromosomes line up along the cell equator	3.	
last phase of mitosis	4.	
spindle fibers pull the sister chromatids apart	5.	
a disease caused by a mutation in genes that control the cell cycle	6.	
divides a cell's cytoplasm	7.	
condenses at the start of mitosis	8.	

VOCABULARY PRACTICE, CONTINUED

C. Vector Vocabulary Define the words in the boxes. On the line across each arrow, write a phrase that describes how the words in the boxes are related to each other.



VOCABULARY PRACTICE, CONTINUED

D. Word Origins Circle the Greek and Latin word parts in each vocabulary term. Then use the Greek and Latin meanings to construct a very basic definition of the vocabulary word.

bi- = two	mal- = bad, evil	pro- = at the start
centro- = middle	-mere = part, segment	telo- = end
cyto- = cell	meta- = change; occurring after	
kin- = movement	mitos- = thread	

WORD	DEFINITION
1. malignant	
2. prophase	
3. telomere	
4. cytokinesis	
5. telophase	
6. binary fission	
7. centromere	
8. mitosis	
9. metastasize	
10. metaphase	