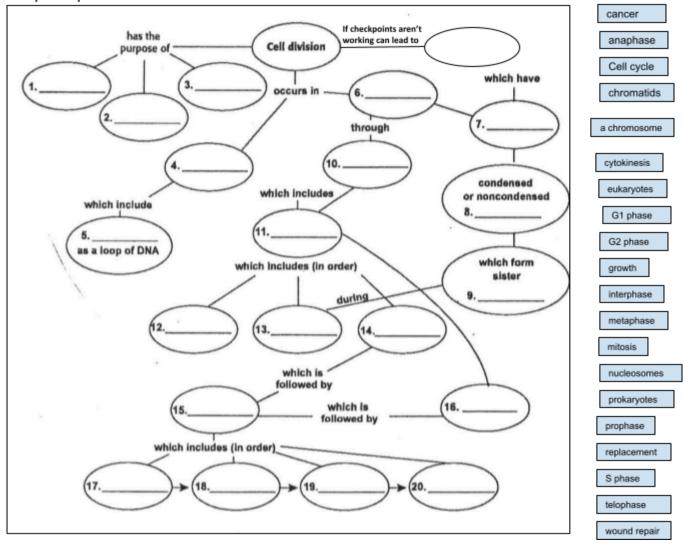
Cell Cycle & Cancer Test Review Sheet

NAME: Date:

Using the terms and phrases provided below, complete the concept map showing the principles of cell division



Mitosis Review Questions

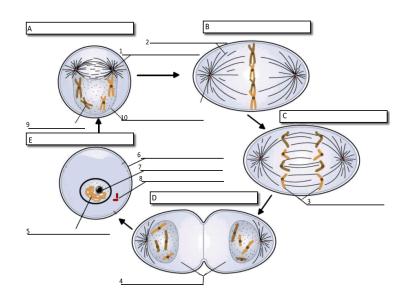
- 1) What are three reasons why cells divide?
- 2) When does chromatin become a chromosome?

3) Which organelle plays a vital role during cell division?

4) The parent cell contains _____ chromosomes and the daughter cells_contain _____chromosome.

5) What are the four phases of mitosis in order?

- 6) During which phase of the cell cycle is DNA duplicated?
- 7) Why is it important that a cell's DNA is duplicated before cell division?
- 8) Which phase of the cell cycle does the cell spend the longest time?
- 9) What is the role of spindle fibers during cell division?
- 10) Complete the illustration to the right.
 - Α.
 - В.
 - C.
 - D.
 - E.
 - 1.
 - 2.
 - 3.
 - 4. 5.
 - 6.
 - 7.
 - 8.
 - 9. 10.



11) Write a b	rief explanation of each phase		
	Animal	Plant	
<u>Interphase</u>			
<u>Prophase</u>			
<u>Metaphase</u>			
<u>Anaphase</u>			
Anaphase			
<u>Telophase</u>			
<u>Cytokinesis</u>			
11) Defi	ne the following:		
	astasis		
IVICE	astasis		
Annualization			
Apoptosis			
Stem Cell			
Differentiation			
G_0			
-0			
12) What is cancer?			
12) Wilat is C	unioci ,		
12) \\/ + -	nama in the call that leads to are result.		
13) What happens in the cell that leads to cancer?			
14) List three ways that Cancer can be prevented.			

Matching: match the term to the description

1. The sister chromatids are moving apart.	10. Chromatids line up along the equator.
2. The nucleolus begins to fade from view.	11. The spindle is formed.
3. A new nuclear membrane is forming around the chromosomes.	12. Chromosomes are not visible.
4. The cytoplasm of the cell is being divided.	13. Cytokinesis is completed.
5. The chromosomes become invisible.	14. The cell plate is completed.
6. The chromosomes are located at the equator of the cell.	15. Chromosomes are replicated.
7. The nuclear membrane begins to fade from view.	16. The reverse of prophase.
8. The division (cleavage) furrow appears.	17. The organization phase
9. The chromosomes are moving towards the poles of the cell.	

The diagram below shows six cells in various phases of the cell cycle. Note the cells are not arranged in the order in which the cell cycle occurs. Use the diagram to arrange the cells in the appropriate order

