Name:	Date:
Dariad	

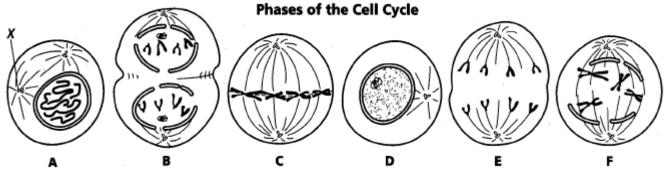
THE CELL CYCLE WORKSHEET

Matching: match th		-		
Prophase	Interphase	Telophase	Metaphase	Anaphase
		1. The sister chromatids are	e moving apart.	
		2. The nucleolus begins to fa	ade from view.	
		3. A new nuclear membrane	e is forming arour	nd the chromosomes.
		4. The cytoplasm of the cell	begins to divide.	
		5. The chromosomes become	ie invisible (at the	e end).
		6. The chromosomes are loc	cated at the equat	or of the cell.
		7. The nuclear membrane b	egins to fade fron	n view.
		8. The division (cleavage) fu	ırrow appears.	
		9. The chromosomes are mo	oving towards the	e poles of the cell.
		10. Chromosomes line up al	ong the equator.	
		11. The spindle fibers are fo	ormed.	
		12. Chromosomes are not v	isible yet.	
		13. Cytokinesis is completed	d during this phas	se.
		14. The cell plate is complet	æd.	
		15. DNA is replicated.		
		16. The reverse of prophase)	
		17. The organization phase		

Fill in the blank: Som Prophase Interphase Telophase	e will be used more than Metaphase Anaphase Centromere	once. Chromatid Cytokinesis Mitosis	Spindle fiber Cell plate
	18. What phase ar	e daughter cells in at the end	d of the cell cycle?
move t	19. During what poward their respective poles?		res divide and the chromatids
	20. What is the ph	ase where chromatin conde	nses to form chromosomes?
	21. What is the na	me of the structure that com	nects the two chromatids?
individu	22. In a chromosonal chromosonal chromosome called?	me pair connected by a cent	romere, what is each
	23. What are the t	wo parts of cell division?	
	24. What structure	e forms in prophase along w	hich the chromosomes move?
	25. Which phase o	f mitosis is the last phase tha	at chromatids are together?
	26. Which phase o	f the cell cycle is characteriz	ed by a non-dividing cell?
	27. What structure	e is produced when protein f	ibers radiate from centrioles?
	28. What forms ac	ross the center of a plant cel	l near the end of telophase?
	29. The period of o	cell growth and developmen	t between mitotic divisions?

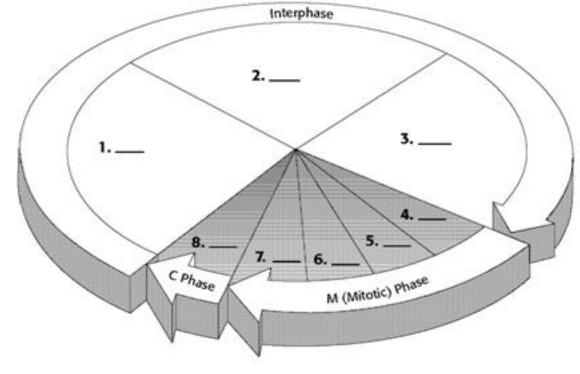
The diagram below shows six cells in various phases of the cell cycle. Note the cells are not arranged in the order in which the cell cycle occurs. Use the diagram to answer questions 1-7.

____ 30. What is the phase where cytokinesis occurs?



- 1. What phase are cell A and F in?
- 2. Which cell is in metaphase? _____
- 3. In cell A, what structure is labeled X?
- 4. List the diagrams in order from first to last in the cell cycle. _____

5.	. Are the cells depicted plant or animal cells?				
	a.	Explain your answer.			
	b.	If it were the other type of cell what would be different in the diagrams?			
6.	What i	is the longest phase of the cell cycle?			
7.	Why is	s mitosis important?			
8.	Predic	t what would happen if an individual had faulty spindle fibers.			
9.	Predic	t what would happen if cytokinesis was skipped.			



1.	 	
7.	 	
8.		

Cancer

1.	What is cancer?
2	What is the difference between a malignant and a honign tumor?
۷.	What is the difference between a malignant and a benign tumor?