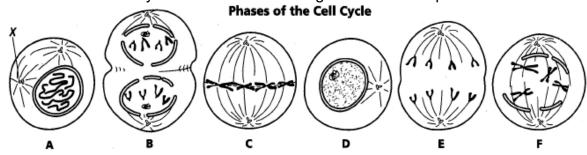
Name			P	erDa	ate		
THE CELL C	YCLE WORKS	HEET					
Matching: match	ch the term to the de	escription					
A. Prophase	B. Interphase	C. Telophase/C	ytokinesis	D. Meta	phase	E. Anaphase	
	r chromatids are mo		9.		omes are m	oving towards cell.	
around th	clear membrane is ne chromosomes.	C		Chromatids The spindle		g the equator.	
	divided.		12. Chromosomes are not visible.				
5. The chromosomes become invisible			13. Cytokinesis is completed.				
6. The chromosomes are located at the equator of the cell.		14.	The cell plat	e is comple	ted.		
	ear membrane begir rom view.	ns to fade		Chromosom The reverse	·		
8. The divisi	8. The division (cleavage) furrow appears.		17. The organization phase				
Fill in the blank	k: Some will be us	ad mara thai	0000				
Fill in the blank: Some will be used more that A. Prophase D. Metaphase			Chromatid	J . :	Spindle fiber		
B. Interphase		•		ytokinesis		C. Cell plate	
C. Telophase		romere		Mitosis		•	
i	18. What phase are daughter cell in as a result of mitosis? 19. During what phase of mitosis	s?		proph	Vhat structur	hich the	
	do centromeres divid	neres divide and the mes move toward their		25. V	hase that ch	of mitosis is the romatids are	
	20. What is the phase chromatin condenses chromosomes?				•	of the cell cycle y a non-dividing	
s	21. What is the name structure that connect chromatids?			when		e is produced rs radiate from	
i	22. In a chromosome pair connected by a centromere, what is each individual chromosome called? 23. What are the two parts of cell		28. What forms across the center of a plant cell near the end of telophase? 29. The period of cell growth and development between mitotic divisions?				

The diagram below shows siz 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.



	1.Cells A & F show an early and a late stage of the same phase of the cell cycle.
	What phase is it?
	2.Which cell is in metaphase?
	3. Which cell is in the first phase of M phase (mitosis)?
	4.In cell A, what structure is labeled X?
	5.List the diagrams in order from first to last in the cell cycle.
	6. What is the longest phase of the cell cycle?
· 	7. Are the cells depicted plant or animal cells?
	a. Explain vour answer.

b. If it were the other type of cell what would be different in the diagrams?

Short Answers

- 8. Why is mitosis important?
- 9. Predict what would happen if an individual had faulty spindle fibers.
- 10. Predict what would happen if cytokinesis was skipped.
- 11. Explain why different kinds of cells in the body might live for different lengths of time.
- 12. At which time of year would mitosis in a plant occur most frequently? Explain why?
- 13. Some drugs that combat cancer inhibit mitosis. What effect might this have on healing times?