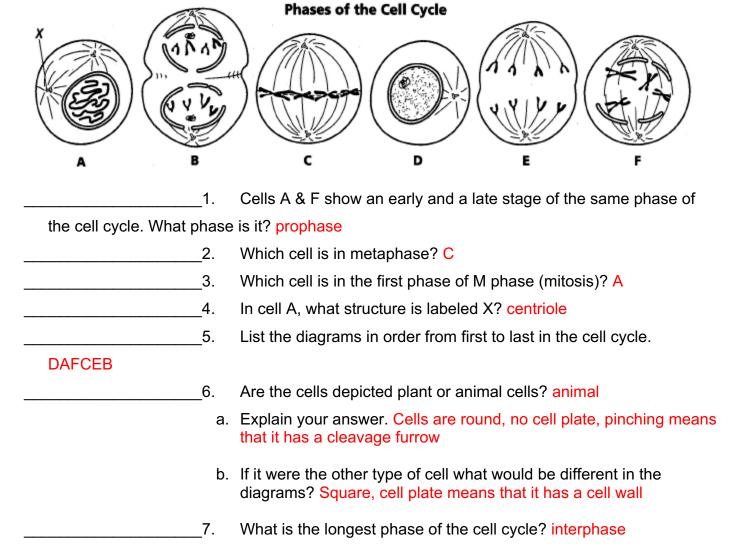
Ch. 5: Ce	II Growth & Div	vision Study	y Guide Na	ame:Key		
<b>Matching:</b> ma A. Prophase	tch the term to the descr B. Interphase	iption C. Telophase	D. Metaphas	se E. Anaphase		
	ter chromatids are movin	E_ 9.		nes are moving towards es of the cell.		
C_ 3. A new nuclear membrane is forming around the chromosomes.			D_ 10. Chromatids line up along the equatorA_ 11. The spindle is formed.			
Cytokinesis 4. The cytoplasm of the cell is being divided.		•	B_ 12. Chromosomes are not visible.			
C_ 5. The chr	omosomes become invis	sibleB_ 13	B_ 13. Cytokinesis is completed (as next cycle begins).			
D_ 6. The chromosomes are located at the equator of the cell.			C_ 14. The cell plate is completed.			
A_ 7. The nuclear membrane begins to fad from view.		C_ 16	B_ 15. Chromosomes are replicatedC_ 16. The reverse of prophase.			
C_ 8. The div	ision (cleavage) furrow a	• •	B_ 17. The organization phase			
Fill in the bland A. Prophase B. Interphase C. Telophase	se E. Anaph	ase G. ase H. C	Chromatid Cytokinesis Mitosis	J. Spindle fiber K. Cell plate		
B E	_18. What phase are daug in as a result of mitosis? _19. During what phase of do centromeres divide ar chromosomes move tow	mitosis	division	nat are the two parts of celler		
A	respective poles?  _20. What is the phase who chromatin condenses to for chromosomes?	ere	prophas chromos 25. Whi	e along which the somes move? ich phase of mitosis is the se that chromatids are		
F	_21. What is the name of t structure that connects the chromatids?	e twoB	26. Whi	ich phase of the cell cycle cterized by a non-dividing		
G_	_22. In a chromosome pai connected by a centromed is each individual chromosome	e, whatJ		at structure is produced otein fibers radiate from		

	centrioles?	B	29. The period of cell growth and
K	28. What forms across the center of a cell near the end of telophase?		development between mitotic divisions?
	·	H	30. What is the phase where cytokinesis occurs?

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.



- 8. Why is mitosis important? Mitosis duplicates nuclear material for 2 daughter cells and allows cells to repair.
- 9. Predict what would happen if an individual had faulty spindle fibers. Daughter cells would end up with the wrong number of chromosomes
- 10. Predict what would happen if cytokinesis was skipped. Cells would have too many chromosomes; cells wouldn't function properly because they would be too big.