Name	,

Cell Cycle and Mitosis

19/25

59

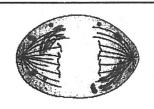
	and the Control of th			
	eft column: place the corresponding letter for the correct stage/phase			
R	ght column: Complete the description of the stage/phase			
1. A	<u>In lerohose</u> : Consists of G₂, S and G₂ phases in the Cell Cycle.			
2. <u></u>	Cytokinesis – division of the cytoplasm resulting in two identical doughter cells.			
3. <u>B</u>	G_1 — grown phase: Makes organelles and proteins needed for replication of DNA. Also contains a G_1 checkpoint. If everything is correct, cell will proceed to S phase.			
4. <u>E</u>	Prophase: chromatin condenses to become chromatids, nuclear envelopes break down, and chromotome migrate to opposite poles in animal cells. Nucleolus disappears.			
5. D	G ₂ - growth phase: Cell gets ready to undergo M. Also contains a G ₂ checkpoint. If DNA replication is correct, checkpoint allows cell to enter M phase.			
6. <u>U</u>	S phase: DNA is Yellication or synthesized.			
7. G	some ler a pulls them apart. This phase ends when the chromatids stop moving.			
8. <u>t</u>	<u>moto phase</u> : sister chromatids line up along the equator in the middle. Spindle apparatus attaches at the centromere of the chromosomes.			
э. <u>Н</u>	Telophase: two nuclear envelopes begin reforming. Chromatids relax, uncoil & are now chromatin. Cytokinesis is occurring during Telophase but it is NOT considered a part of mitosis because it does not involve the nucleus of the cell. In plant cells, a cell plate begins to form while a chromosome is visible in animal cells.			
.0. 1	Mitosis: division of a cell's nucleus. Occurs in this order: prophase, metaphase,			

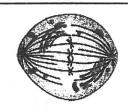
Label the pictures below:











13. pro Ohas

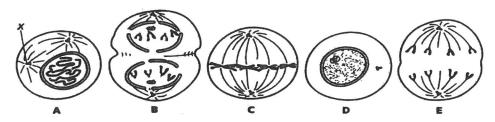
14. araphase

15. aphase

Complete the table by checking the correct column for each statement.

complete the table by checking the correct column for cach statement.				
Statement	Interphase	Mitosis		
16. Cell growth occurs	X	V		
17. Nuclear division occurs		1		
18. Chromosomes are duplicated	V			
19. Where cells spend most of their life	V			

Use the following illustrations for questions 20-24



centrioles

21. Sequence the five diagrams in chronological order from first to last. $\overline{\bigcirc}$

22. Chromosomes move to the middle of the cell during which phase? __metallocale

24. If a cell has 46 chromosomes, how many chromosomes will each daughter cell have after mitosis?

Identify the stage of mitosis each lettered plant cell is in:

25.	A	Interphesor
26.	В	anciphose
27.	С	anaphas e
28.	D	telophose ;
29.	E	prophase

