Cell Cycle/ Mitosis Unit Exam			
Name and Date			
Matching: match the term to the description A. Prophase B. Interphase C. Telophase D. Metaphase E. Anaphase			
 Sister Chromatids are moving apart from one another			
Prophase			
Metaphase			
Anaphase			
Telophase			

Cytokinesis	

Fill in the blank: answers from the answer bank may be used more than one time or not at all.

A) Prophase	B) Interphase	C)Telophase	D)Metaphase
E) Four	F) Centromere	G) Chromatid	H) Cytokinesis
I) Mitosis	J) Spindle Fiber	K) Cell Plate	L) Centromere

11. What phase are identical daughter cells in as a result of mitosis?12. How many phases are there in the cell cycle?13. What structure forms in prophase along which the chromosomes move?14. Which phase of the cell cycle is characterized by a cell that is not dividing?
15. What forms across the center of a cell near the end of telophase?16. In a chromosome pair connected by a centromere, what is each individual chromosome called?

18. During what phase of mitosis do centromeres divide and the chromosomes move toward opposite poles? _____

19. During what phase of mitosis does the nuclear envelope disappear? _____

20. What is the phase where chromatin condenses to form chromosomes?

Short Answer: Answer the following questions in 1-3 complete sentences.

17. What is the name of the structure that connects chromatids?

1. The cell cycle has four main stages. List these stages and what occurs during each.

2.	Compare the differences in rates of cell division between a cell found in your small intestine and a neuron. Explain why these types of cells have different rates of division.
3.	Describe how uncontrolled cellular division can be dangerous in organisms? What is this condition called?