Bio 30 Unit C Cell Cycle, Mitosis & Meiosis Worksheet

1.	The following terms refer to specific phases that occur during a cell's life cycle. Place the terms is order as they naturally occur during the life cycle of a cell:			
	a.	Interphase: S-phase	e. Metaphase	
	ь. b.	Daughter cell formation	·	
	с.	Interphase: G2-phase	g. Telophase	
	d.			
	a.	Anaphase	h. Interphase: G1-phase	
2.	Circle	Circle one of the following terms that does not refer to a specific phase of mitosis?		
	a.	Anaphase	d. Prophase	
	b.	Interphase	e. Telophase	
	c.	Metaphase		
3.	Match the prefix or suffix on the left with the closest meaning on the right:			
	a.	ana	a. middle	
	b.	inter	b. appearance (period of specific time)	
	c.	meta	c. end (completion)	
	d.	mitos	d. before (first)	
	e.	pro	e. in-between	
	f.	phase	f. thread	
	g.	telo	g. pull apart	
4.	Place the events in order as they would naturally occur during the life cycle of a dividing cell. a Cytokinesis occurs, resulting in new daughter cells. b Daughter chromatids move toward the spindle poles. c Chromosomes condense from the chromatin of the nucleus. d Chromosomes are aligned along the equator of the mitotic spindle. e Resting, DNA replication & protein building between mitotic divisions.			
5.	Why is Interphase not truly a period of rest?			
6.	Describe the evens that occur during G1, S & G2 of Interphase.			
7.	Define crossover. During which phase does it occur? What is the benefit of crossover to sexual reproduction?			
8.	Describe 3 ways in which Mitosis and Meiosis differ.			
9.	What is the significance of Meiosis II? Why is it necessary for sexual reproduction?			