# CHAPTER 5 The Cell Cycle

BLM 2-12

Goal • Review terms and concepts about the cell cycle.

### What to Do

	Match the Statements on the left with the correct Phase on the right.  Each Phase may be used more than once.						
	Statement	Phase					
<u>D</u>	1. nucleolus appears within each new nucleus	A. prophase					
<u> </u>	2. centromeres divide	B. metaphase					
<u>++</u>	3. chromosomes become visible	C. anaphase					
A	4. spindle fibres begin to form	D. telophase					
E	5. DNA replicates	E. interphase					
$\Box$	6. replicated strands move toward opposite poles						
<u>B</u>	7. chromosomes form a line across the middle of the cell	·					
$\frac{\mathcal{D}}{\mathcal{E}}$	8. nuclear membrane forms around each set of chromosomes						
<u></u>	9. cell grows						

10. Place a check mark (✓) under each phase in which you can see the structures listed in the first column.

Simenires - Present	Interphase	Prophase	Metaphase	Anaphase	Telophase
Nucleus		1/x			/ 10
Nucleolus	<b>V</b>	1/x-	J1 8.		L latter
Nuclear membrane	V	V/X	Cooper		1 to love
Chromatin		V/X-			
Chromosomes					
Spindle fibres		Variation .	V.	V	

11. Describe the end result of mitosis.	/ 1. /	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
tuo identical	Laenelically	) daughter cell
	<del>`</del>	

## CHAPTER 5 Cell Growth and Division

**BLM 2-14** 

Goal • Review your understanding of the phases of the cell cycle.

### What to Do

Write the name of the stage of the cell cycle that corresponds to each event described below.

- 1. Centromeres divide. anaphase
- 3. Nuclear membranes form around each mass of chromosomes. <u>Helaphase</u>
- 4. Chromosome strands separate and move toward opposite ends of the cell. <u>Quapha</u>S
- 5. A copy of each chromosome is made. IN erphase
- 6. Cell membrane pinches together and the cytoplasm of the cell divides. Cytokines is
- 7. The nuclear membrane disappears. <u>prophase</u> (late)
- 8. Daughter cells form. Cytokinesis
- 9. Double-stranded chromosomes line up in the centre of the cell. we tapkase
- 10. It makes up most of a cell's life. IN Herphase

#### **Short Answer**