

Read pages 158 – 171 in the Elephant Book and answer the following questions.

1. Most living things don't grow by enlarging existing cells, but rather by producing more cells. Describe 2 reasons why this is so.

a. _____

b. _____

2. If bacterial such as *E.Coli* can divide every 30 minutes, why haven't they taken over the world? _____

3. Describe the structure of a chromosome. _____

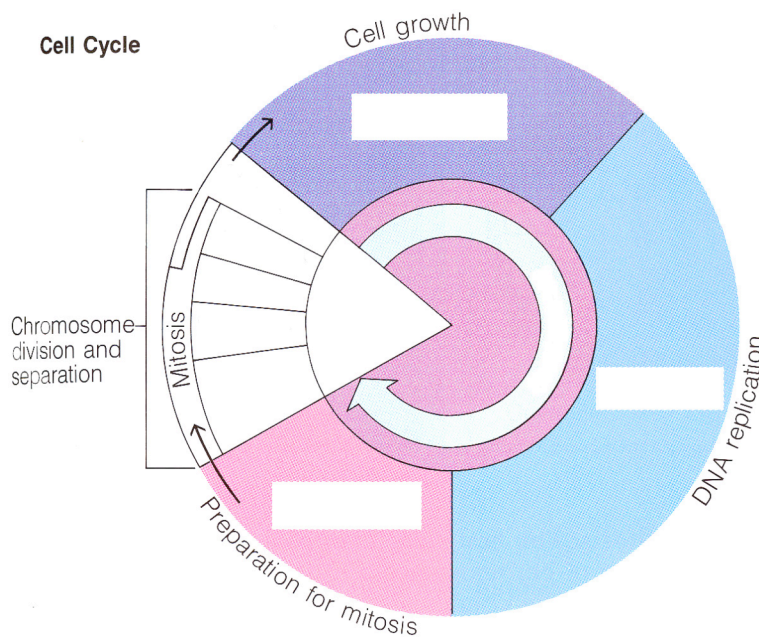
4. Describe the *main* events that take place in the three main stages of the cell cycle.

Interphase: _____

Mitosis: _____

Cytokinesis: _____

5. Using the diagram on page 167, fill in the blank spaces on the diagram below.



6. After completing the data table on side 2, use pages 174 and 175 to answer the following questions.

Multiple Choice

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

True or False

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

7. Fill out the table below. For drawings use the animated portions of *figures 8-11, 8-12, 8-14, 8-15, 8-16, 8-17*

Phase in Cell Cycle		Description	Colored Drawing
I N T E R P H A S E	G₁ phase		- only one drawing is required for interphase -
	S phase		
	G₂ phase		
M I T O S I S	Prophase		
	Metaphase		
	Anaphase		
	Telophase		

CYTOKINESIS		
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