

Name:

The Cell Cycle: What controls the life and development of a cell?

(modified from POGIL)

1. How many phases are in the cell cycle as shown in the diagram in Model 1? 4 phases.

2. Starting at the starred (*) cell, what is the order of the stages of a cell's life?

G₁, S, G₂, M

3. During which phase does the size of the cell increase?
During G₁

4. During which phase does the number of cells increase?
Mitosis

5. Considering your answer to Questions 3 and 4, identify two ways that the growth of an organism can be accomplished through the events of the cell cycle.

An organism can grow when it is damaged, and when it goes through the cell cycle.

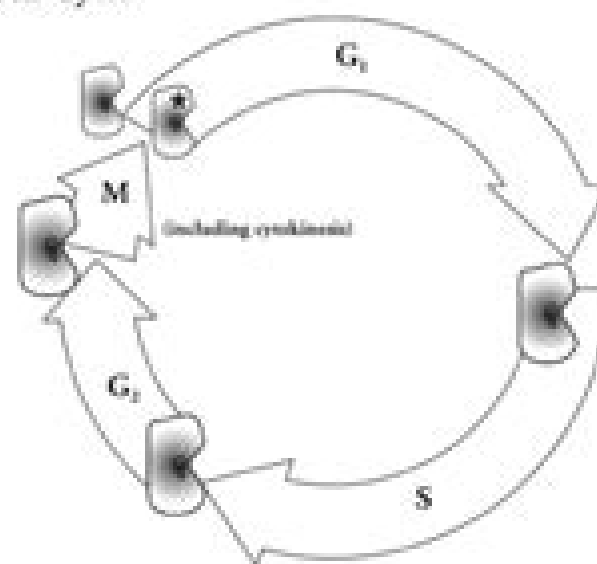
6. Cancer, the uncontrolled growth of cells, often results in a tumor, or mass of abnormal cells. Some cancerous tumors consist of many cells that are much smaller than normal. According to Model 1, what part(s) of the cell cycle is (are) most likely being affected?

During G₁ or M

7. In Model 1, if the length of the arrow represents time, then for those cancerous cells, what happens to the time that is necessary for the cell cycle? What implication might this have for doctors who are treating cancer patients?

The time decreases because the time needed for G also decreases. This means that the treatment process needs to be as soon as possible and occur as efficiently as possible because cancer cells can grow and spread a lot faster than normal cells.

Model 1 – The Cell Cycle



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