

Chapter 10 Cell Growth and Division Chapter Vocabulary Review

Completion On the lines provided, complete the following sentences.

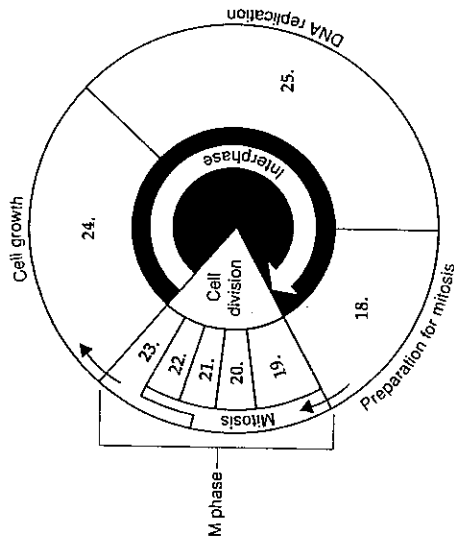
- The M phase is also known as _____.
- The _____ is the period of time from the beginning of one cell division to the beginning of the next.
- Each pair of chromatids is attached at an area called the _____.
- The three phases of _____ are G₁, S, and G₂.
- _____ is the division of the cell nucleus.
- The _____ is a fanlike microtubule structure that helps separate the chromosomes.
- The four phases of mitosis are _____, _____, and _____.
- The division of the cytoplasm during the M phase is called _____.
- Proteins known as _____ regulate the timing of the cell cycle in eukaryotic cells.
- _____ is a disorder in which some of the body's own cells lose the ability to control growth.

Multiple Choice On the line provided, write the letter that best completes the statements or answers the question.

- Before cell division, each chromosome consists of two identical "sister"
 - centromeres.
 - cell cycles.
 - chromatids.
 - spindles.
- The four phases of the cell cycle are
 - interphase, mitosis, G₁ and G₂.
 - M phase, G₁ phase, S phase, and G₂ phase.
 - prophase, metaphase, anaphase, and telophase.
 - cytokinesis, mitosis, cell cycle, metaphase.
- What part of the cell separates and takes up positions on opposite sides of the nucleus during prophase?
 - centrioles
 - centromeres
 - chromatids
 - spindles
- What process ensures that each daughter cell gets one complete set of genetic information and that each daughter cell also has increased surface area?
 - cell division
 - mitosis
 - cytokinesis
 - cancer

- What phase of mitosis usually occurs at the same time as cytokinesis?
 - anaphase
 - telophase
 - prophase
 - cell division
- What phase of mitosis takes the longest period of time?
 - prophase
 - cytokinesis
 - anaphase
 - interphase
- What is the name for tumors that form and can cause damage to surrounding tissue?
 - cell division
 - mitosis
 - cytokinesis
 - cancer

Labeling Diagrams On the lines below, label the events in the cell cycle that correspond with the numbers in the diagram.



- _____
- _____
- _____
- _____
- _____