

Cell Growth and Division

Answer Key

SECTION 1. THE CELL CYCLE

Cell Cycle: (1) Gap 1 (G₁): cells grow, carry out normal functions, and copy their organelles. (2) Synthesis (S): cells replicate DNA. (3) Gap 2 (G₂): cells go through additional growth. (4) Mitosis (M): cells undergo cell division, which involves both the processes of mitosis and cytokinesis.

1. At the time that these stages were named, scientists could not observe any activity going on in cells, so they thought there were gaps in cellular activity.
2. G₁ and G₂
3. in the nucleus
4. mitosis and cytokinesis
5. G₁
6. The rate of cell division is linked to the body's need for that cell type. Skin cells are typically exposed to more damaging conditions and must be replaced more often than liver cells.
7. the name that some scientists give to the stage where cells carry out their normal functions but are unlikely to divide
8. Answers will vary. Sample answer: Cell size is limited because all substances must cross the membrane. Enough material needs to enter and exit to keep the cell alive. Since volume tends to increase faster than surface area (in a sphere or cube), the volume could quickly become too large compared to the area available for exchange. In a similar way, people in a very large theater that holds thousands might not be able to exit quickly for an emergency. People in a smaller theater that seats fewer people could probably exit more quickly.
9. volume
10. growth and division
11. Answers will vary, but should relate the recurrence of something (steps, phases, the rotation of a wheel) to the repeating pattern of growth, DNA duplication, and cell division that occurs in eukaryotic cells.
12. cytokinesis; *cyto-* refers to a cell and *kinesis* refers to division or movement
13. mitosis

SECTION 2. MITOSIS AND CYTOKINESIS

1. one long continuous thread of DNA that has many genes and regulatory information
2. so they can be more easily divided between the two nuclei
3. Proteins need to be able to access genes during other stages of the cell cycle so that they can be used to make proteins or so that the entire DNA sequence can be copied.

DNA Diagram: Refer to Figure 2.2 for visual answer.

4. During interphase, a cell duplicates its DNA and organelles.
5. body cells
6. Answers will vary. Sample answer: Pat's mom ate tomatoes.

Cycle Diagram: Refer to Figure 2.4 for visual answer. Labels (clockwise) metaphase, anaphase, telophase

7. In animal cells, the membrane pinches together, forming a cleavage furrow. In plant cells, the membrane cannot pinch together because of the cell wall. Instead, a cell plate is laid down between the two nuclei, which will develop into the new cell walls and cell membranes.
8. histones
9. chromatin
10. centromere
11. telomeres

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CL Gary

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