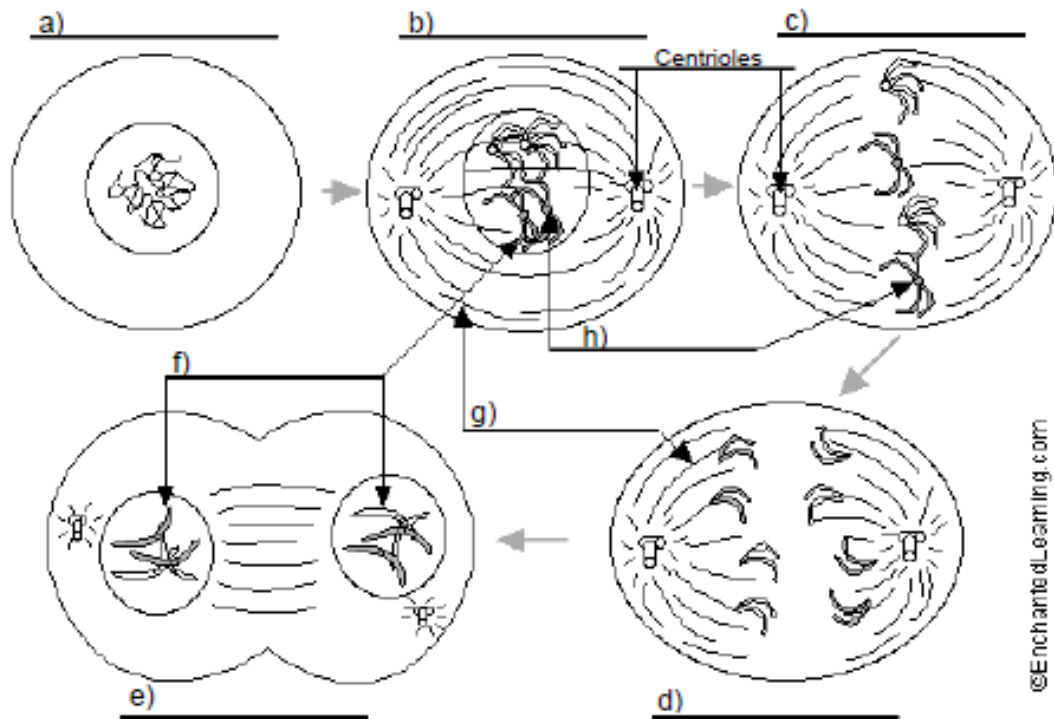


The Cell Cycle Quiz

Labeling Question A-F.

Label the diagram below with the phases of mitosis (a-e) or the type of cell structure (f-h). Use key to the right.



Key

Spindle Fiber
Interphase
Anaphase
Metaphase
Centromere
Telophase
Chromatids
Prophase
Chromosome

Multiple Choice Questions #1-12

1. In which phase of Interphase does cell growth primarily occur?

- a. Prophase
- b. G₂
- c. S
- d. G₁

2. In the S phase of Interphase what happens?

- a. DNA is synthesized or replicated.
- b. Cytokinesis occurs.
- c. Sister chromatids separate.
- d. Chromatin becomes tightly coiled.

Name: _____ Date: _____ Hour: _____

3. Which of the following occurs during prophase?

- a. Sister chromatids separate.
- b. Chromosomes line up in the center.
- c. Cytokinesis occurs.
- d. The spindle fibers begin to form.

4. Cytokinesis occurs at the end of _____.

- a. telophase
- b. anaphase
- c. metaphase
- d. prophase

5. What is the end product of mitosis?

- a. 1 daughter cell with the same DNA as the parent cell
- b. 2 daughter cells with the same DNA as the parent cell
- c. 1 daughter cell with DNA different from the parent cell
- d. 2 daughter cells with DNA different from the parent cell

6. What is the correct order of the four phases in mitosis?

- a. Metaphase, Anaphase, Prophase, Telophase
- b. Anaphase, Telophase, Metaphase, Prophase
- c. Prophase, Metaphase, Anaphase, Telophase
- d. Telophase, Anaphase, Metaphase, Prophase

7. The stage of the cell cycle where the cell is preparing for cell division (M phase) is called:

- a. G2
- b. G1
- c. S
- d. Cytokinesis

8. The pinching off of the cell membrane that creates two new cells (after mitosis) is called:

- a. Interphase
- b. Metaphase
- c. Anaphase
- d. Cytokinesis

Name: _____ Date: _____ Hour: _____

9. Which type of cell division is responsible for repairing your skin following sunburn?

- a. Mitosis
- b. Meiosis
- c. Both mitosis and meiosis
- d. Binary Fission

10. Which of the following is NOT associated with mitosis?

- a. Repairing a cut
- b. Growing in height
- c. Production of egg and sperm cells
- d. Growth of hair

11. What part of the cell cycle do cells spend the longest time in?

- a. Cell Division (M Phase)
- b. Cytokinesis
- c. Metaphase
- d. Interphase

12. Prokaryotes undergo this type of cell division:

- a. Binary Fission
- b. Cytokinesis
- c. Mitosis
- d. Binary Fusion

Name: _____ Date: _____ Hour: _____

Answer Key

Labeling Questions

- a) Interphase
- b) Prophase
- c) Metaphase
- d) Anaphase
- e) Telophase
- f) Chromatids
- g) Spindle Fiber
- h) Centromere

Multiple Choice

- 1. D
- 2. A
- 3. D
- 4. A
- 5. B
- 6. C
- 7. A
- 8. D
- 9. A
- 10. C
- 11. D
- 12. A