

Cell Biology

Name:

Mitosis Benchmark Review

Period:

Use your brain to answer the following questions, then check your work using Chapter 5, Section 2.

_____ 1. What is the result of mitosis and cytokinesis?
a. two identical cells b. two nuclei c. two chloroplasts d. two different cells

_____ 2. Which of the following cells would form a cell plate during the cell cycle?
a. a human cell b. a prokaryotic cell c. a plant cell d. All of the above

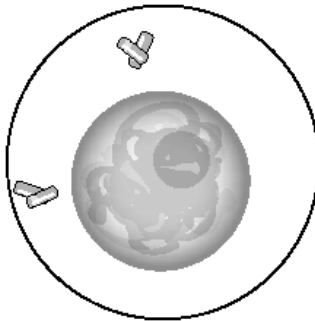
3. What happens during mitosis?

4. How many pairs of chromosomes do humans have? _____

5. A parent cell has 10 chromosomes. How many chromosomes will each new cell have after the parent cell divides? _____

6. What would happen to a cell if it were unable to use feedback?

The image below shows a cell. Use the image to answer the next two questions.



7. Is the cell prokaryotic or eukaryotic?

8. Assume that 12 chromatids are present in the image above. How many chromosomes will be present in each of the new cells after the cell divides? _____