

Goal • Assess your understanding of the phases of the cell cycle and the events that occur.

What to Do

Write your answers to the following questions in the spaces provided.

Fill in the Blanks

Write the name of the stage of the cell cycle that corresponds to each event described below.

1. Centromeres divide. _____
2. Centrioles move to opposite ends of the cell. _____
3. Nuclear membrane forms around each mass of chromosomes. _____
4. Chromosome strands separate toward opposite ends of the cell. _____
5. A copy of each chromosome is made. _____
6. Cell membrane pinches together and the cytoplasm of the cell divides. _____
7. The nuclear membrane disappears. _____
8. Daughter cells form. _____
9. Double-stranded chromosomes line up in the centre of the cell. _____
10. It makes up most of a cell's life. _____

Short Answer

11. (a) In mitosis, how many cells form from the original cell?

- (b) Name them.

12. (a) Describe how the cell prepares for mitosis.

- (b) Draw and label a diagram showing this process. Title the diagram with the name of the process.

DATE:

NAME:

CLASS:

CHAPTER 1
ASSESSMENT

Cell Growth and Division (continued)

BLM 1-17

13. Explain what happens to a cell during interphase.

14. In the space below, make two sketches to illustrate how cell division in plant cells differs from cell division in animal cells. Briefly explain your sketches.