

Name: _____ Date: _____

WORKSHEET 5-72

Mitosis: Matching

Match the questions below with the proper answers that follow them. Write the proper letter in the blanks.

Questions:

- _____ 1. What is mitosis?
- _____ 2. In order, what are the four main stages of mitosis?
- _____ 3. What is the name of the stage a cell goes through just prior to mitosis?
- _____ 4. What is the main event of interphase?
- _____ 5. What are two important events of prophase?
- _____ 6. What is the main event of metaphase?
- _____ 7. What structure is involved in moving chromosomes during mitosis?
- _____ 8. What is the main event of anaphase?
- _____ 9. What are two important events of telophase?
- _____ 10. At the completion of mitosis when the cell divides, what name is given to the two new cells?
- _____ 11. You began life as a one-celled structure called a zygote. What process then took place over and over to build a body containing billions of cells?

Answers:

- a. Interphase
- b. The chromosomes in the nucleus of the cell make identical copies of themselves.
- c. The chromosomes move toward and line up along the center of the cell, called the equator.
- d. The nuclear membrane disappears and the chromosomes become distinct.
- e. Mitosis
- f. New nuclear membranes form around each of the two sets of chromosomes, and the cell divides into two daughter cells.
- g. Prophase, metaphase, anaphase, and telophase
- h. Daughter cells
- i. Microtubules
- j. Division of the nucleus of the cell (usually followed by division of the cell itself)
- k. The microtubules pull one set of chromosomes to one side of the cell and an identical set to the opposite side of the cell.