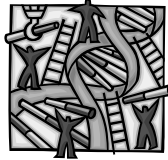


Cell Division Worksheet

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 give to the two new cells?
- _____ 11. You began life as a one-cell structure called a zygote. What process then took place over and over to build a body containing billions of cells?
- _____ 12. What are the 3 stages of interphase?
- _____ 13. How long does the cell cycle take in an average animal cell?

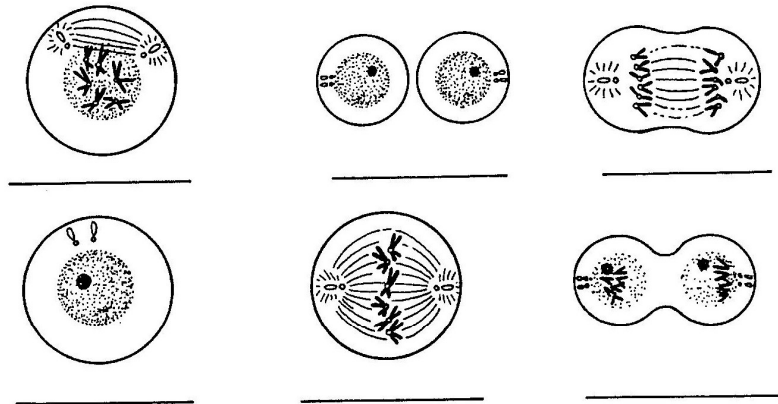


ANSWERS:

- A. G₁, S, G₂
- B. The chromosomes (DNA) in the nucleus of the cell make identical copies of themselves.
- C. The chromosomes move toward and line up along the center, equator, of the cell.
- D. The nuclear membrane disappears and the chromosomes become distinct.
- E. 12-24 hours
- F. The 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. Spindle fibers
- J. Division of the nucleus of the cell (usually followed by division of the cell itself)
- K. The spindle fibers pull one set of chromosomes to one side of the cell and an identical set to the opposite side of the cell.
- L. Interphase
- M. Mitosis

STAGES OF CELLULAR DIVISION

Directions: Number the following six stages of cell division in animal cells in the proper order. Then label each stage (interphase, prophase, metaphase, anaphase, telophase, cytokinesis).



Directions: Do the same for the plant cell below. Also label the cell plate!

