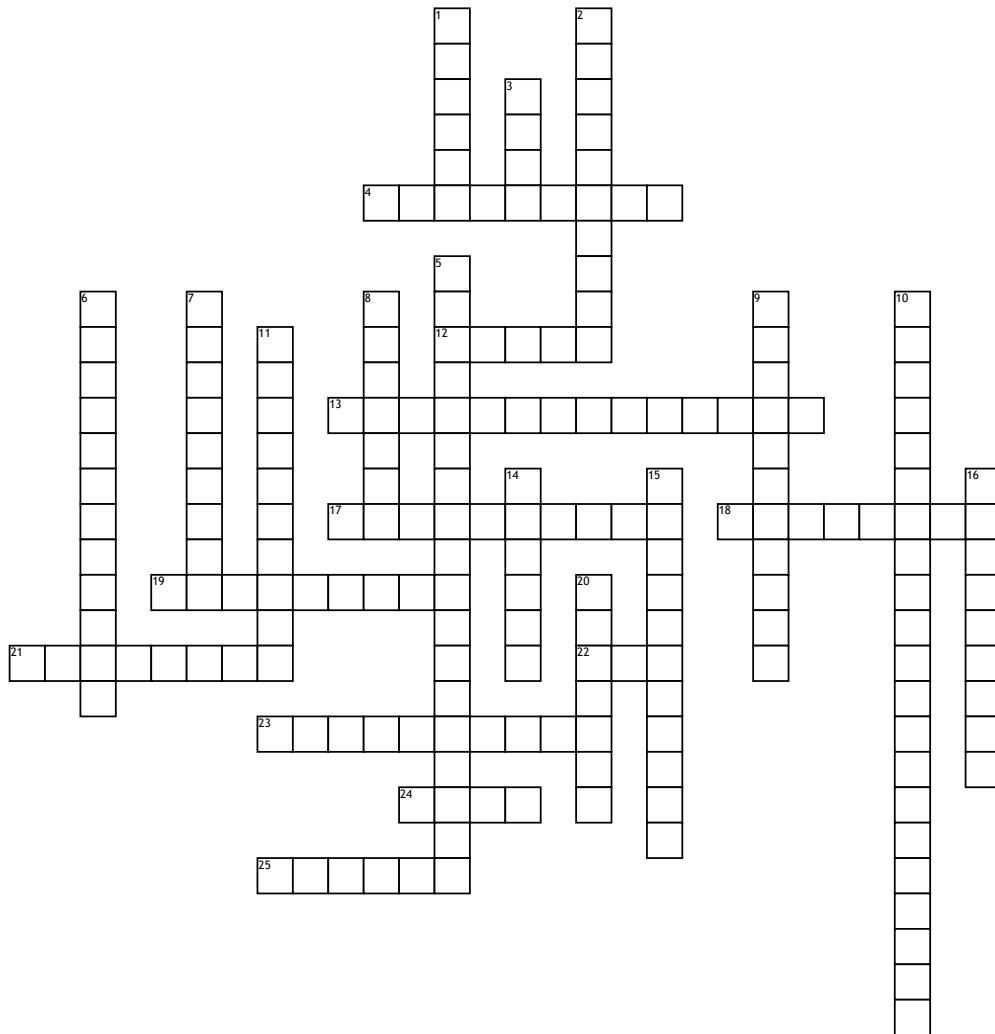


Name: \_\_\_\_\_

# Chapter 10-3 Crossword Puzzle



**Across**

- 4. What tiny structure is located in the cytoplasm near the nuclear envelope?
- 12. How many phases does interphase consist of?
- 13. S is also referred to as \_\_\_\_\_.
- 17. G1 is also referred to as \_\_\_\_\_.
- 18. What phase of mitosis ends when the chromosomes stop moving?
- 19. What phase of mitosis consists of microtubules connecting the centromere of each chromosome to the poles of the spindle?
- 21. What is the longest phase of mitosis?
- 22. How many daughter cells are produced from one cell?

- 23. At the beginning of cell division, each chromosome consists of two sister \_\_\_\_\_.
- 24. Where do cancer cells break loose and spread throughout?
- 25. Cancer cells form masses of cells called \_\_\_\_\_.

**Down**

- 1. What is a protein that regulates the timing of the cell cycle in eukaryotic cells?
- 2. What is the area where a pair of chromatids is attached called?
- 3. How many phases are there during mitosis?
- 5. Proteins that respond to events inside of the cell.
- 6. What is the process by which a cell divides into two new daughter cells?

- 7. Cancer is a disease of the \_\_\_\_\_.
- 8. A fanlike microtubule structure that helps separate the chromosomes.
- 9. The division of a cell's cytoplasm.
- 10. G2 is also referred to as \_\_\_\_\_.
- 11. What is the time period between cell divisions called?
- 14. What signals do cancer cells not respond to?
- 15. \_\_\_\_\_ are not visible in most cells except during cell division.
- 16. What is the division of the cell's cytoplasm called?
- 20. What is the division of the cell nucleus called?

**Word Bank**

- |                         |                 |               |            |                     |
|-------------------------|-----------------|---------------|------------|---------------------|
| Prophase                | Telophase       | Tumors        | Centromere | Internal regulators |
| Mitosis                 | Chromatids      | Cyclin        | Two        | spindle             |
| Cell Cycle              | Body            | Cell Division | Four       | Cell Growth         |
| Anaphase                | Three           | Metaphase     | Growth     | Interphase          |
| Preparation for Mitosis | DNA Replication | cytokinesis   | Centriole  | Chromosomes         |