

**The Cell Cycle Worksheet:**

**Names:** \_\_\_\_\_

**Matching:** Match the term to the description.

A. Interphase

B. Prophase

C. Metaphase

D. Anaphase

E. Telophase

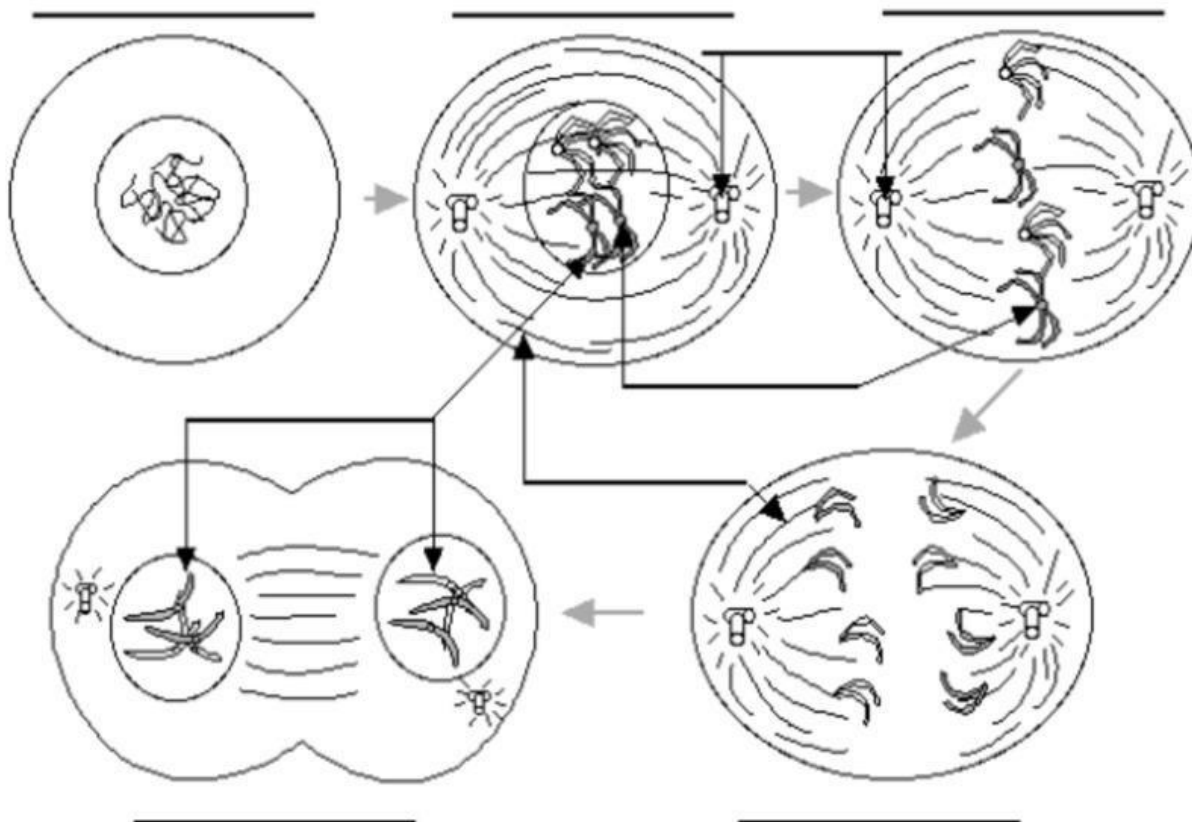
- \_\_\_\_\_ 1. The sister chromatids are moving apart.
- \_\_\_\_\_ 2. The nucleus begins to fade from view.
- \_\_\_\_\_ 3. A new nuclear membrane is forming
- \_\_\_\_\_ 4. The cell membrane begins to pinch in.
- \_\_\_\_\_ 5. The chromosomes decondense.
- \_\_\_\_\_ 6. The chromosomes are located at the equator.
- \_\_\_\_\_ 7. The nuclear membrane begins to fade from view.
- \_\_\_\_\_ 8. The chromosomes move towards the poles of the cell.
- \_\_\_\_\_ 9. Sister chromatids line up along the equator.
- \_\_\_\_\_ 10. The division of cell membrane appears
- \_\_\_\_\_ 11. The spindle is formed.
- \_\_\_\_\_ 12. Chromosomes are not visible.
- \_\_\_\_\_ 13. Chromosomes are replicated.
- \_\_\_\_\_ 14. The reverse of prophase.

**Fill in the blank:** Match the word to the question or description. Some will be used more than once.

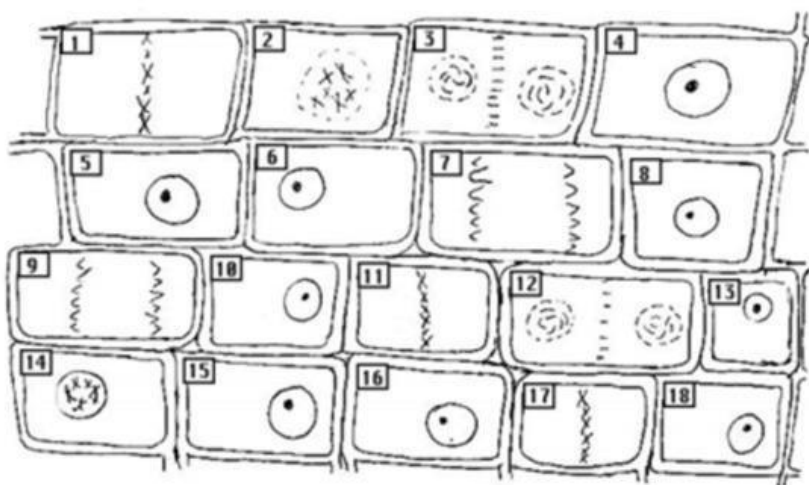
- |               |               |                |              |             |
|---------------|---------------|----------------|--------------|-------------|
| A. Prophase   | B. Interphase | C. Telophase   | D. Metaphase | E. Anaphase |
| F. Centromere | G. Chromatid  | H. Cytokinesis | I. Mitosis   | J. Spindle  |

- \_\_\_\_\_ 15. During what phase are daughter cells created?
- \_\_\_\_\_ 16. During what phase of mitosis do centromeres divide and the chromosomes move toward their respective poles?
- \_\_\_\_\_ 17. What is the phase where chromatin condenses to form chromosomes?
- \_\_\_\_\_ 18. What is the name of the structure that connects the two sister chromatids?
- \_\_\_\_\_ 19. In a chromosome pair connected by a centromere, what is each individual chromosome called?
- \_\_\_\_\_ 20. What structure forms in prophase along which the chromosomes move?
- \_\_\_\_\_ 21. Which phase of mitosis is the last phase that sister chromatids are together?
- \_\_\_\_\_ 22. What structure is produced when protein fibers radiate from centrioles?
- \_\_\_\_\_ 23. The period of cell growth?
- \_\_\_\_\_ 24. In what phase does DNA replicate?

25. Label the following images of cell cycle. (The stage and components)



26. The drawing below illustrates the cells in a fast-growing onion tip.



Identify the cells (by number) which are in the following stages of the cell cycle:

Interphase \_\_\_\_\_

Prophase \_\_\_\_\_

Metaphase \_\_\_\_\_

Anaphase \_\_\_\_\_

Telophase \_\_\_\_\_