

The Cell Cycle Worksheet:

Names: _____

Matching: Match the term to the description.

A. Interphase

B. Prophase

C. Metaphase

D. Anaphase

E. Telophase

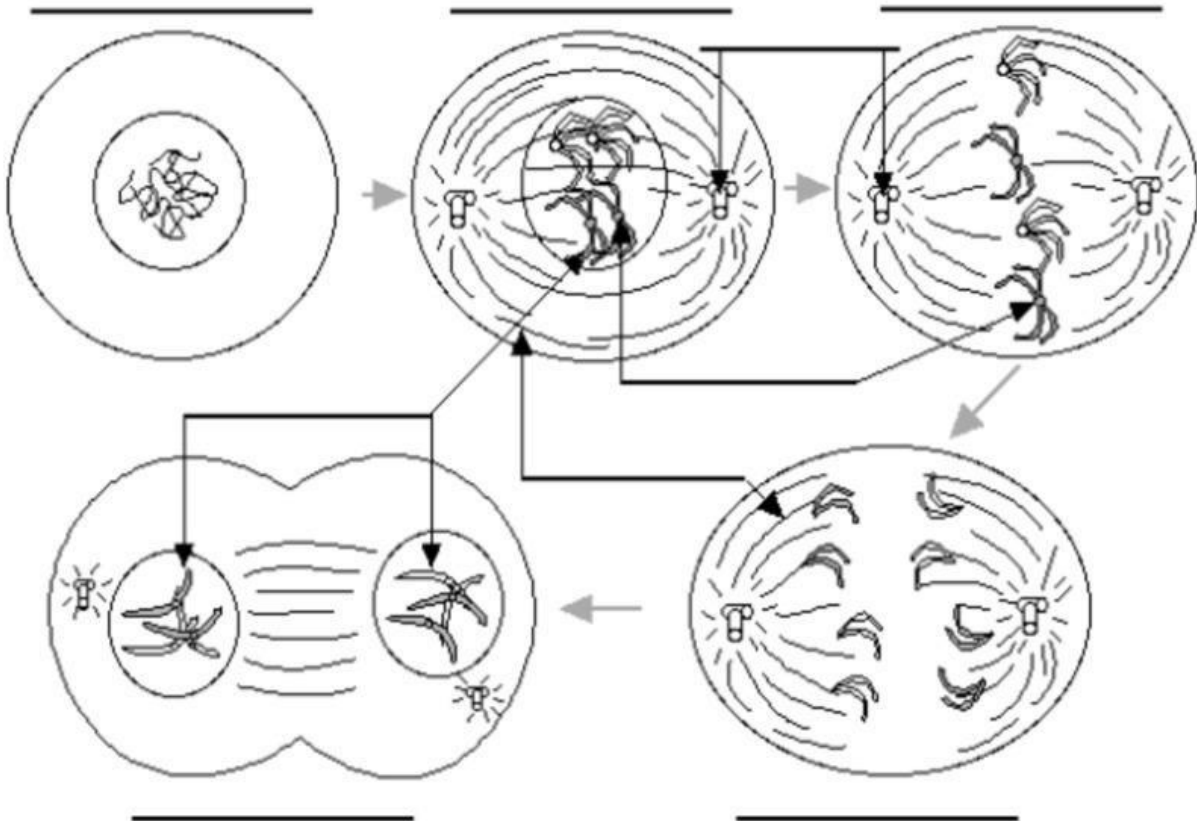
- _____ 1. The sister chromatids are moving apart.
- _____ 2. The nucleus begins to fade from view.
- _____ 3. A new nuclear membrane is forming
- _____ 4. The cell membrane begins to pinch in.
- _____ 5. The chromosomes decondense.
- _____ 6. The chromosomes are located at the equator.
- _____ 7. The 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.

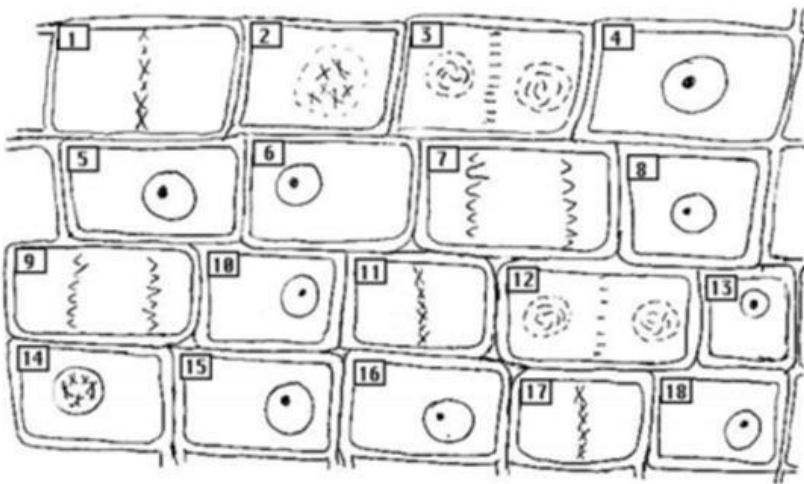
- | | | | | |
|---------------|---------------|----------------|--------------|-------------|
| A. Prophase | B. Interphase | C. Telophase | D. Metaphase | E. Anaphase |
| F. Centromere | G. Chromatid | H. Cytokinesis | I. Mitosis | J. Spindle |

- _____ 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 _____