

THE CELL CYCLE WORKSHEET

Name: Key

Matching: match the term to the description

A. Prophase B. Interphase C. Telophase D. Metaphase E. Anaphase

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| __E__ 1. The sister chromatids are moving apart. | __E__ 9. The chromosomes are moving towards the poles of the cell. |
| __B__ 2. The nucleolus begins to fade from view. | __D__ 10. Chromatids line up along the equator. |
| __C__ 3. A new nuclear membrane is forming around the chromosomes. | __A__ 11. The spindle is formed. |
| __C__ 4. The cytoplasm of the cell is being divided. | __B__ 12. Chromosomes are not visible. |
| __C__ 5. The chromosomes become invisible. | __B__ 13. Cytokinesis is completed (as next cycle begins). |
| __D__ 6. The chromosomes are located at the equator of the cell. | __C__ 14. The cell plate is completed. |
| __A__ 7. The nuclear membrane begins to fade from view. | __B__ 15. Chromosomes are replicated. |
| __C__ 8. The division (cleavage) furrow appears. | __C__ 16. The reverse of prophase. |
| | __B__ 17. The organization phase |

Fill in the blank: Some will be used more than once.

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

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| __B__ 18. What phase are daughter cells in as a result of mitosis? | __I, H__ 23. What are the two parts of cell division? |
| __E__ 19. During what phase of mitosis do centromeres divide and the chromosomes move toward their respective poles? | __J__ 24. What structure forms in prophase along which the chromosomes move? |
| __A__ 20. What is the phase where chromatin condenses to form chromosomes? | __D__ 25. Which phase of mitosis is the last phase that chromatids are together? |
| __F__ 21. What is the name of the structure that connects the two chromatids? | __B__ 26. Which phase of the cell cycle is characterized by a non-dividing cell? |
| __G__ 22. In a chromosome pair connected by a centromere, what is each individual chromosome called? | __J__ 27. What structure is produced when protein fibers radiate from centrioles? |
| | __K__ 28. What forms across the center of a cell near the end of telophase? |