

# WORKSHEET: Cell Division

Date: \_\_\_\_\_

## Matching: Match the term to the description

I = interphase    P = prophase    M = metaphase    A = anaphase    T = telophase    C = cytokinesis

- |   |   |
|---|---|
| _____ 1. The sister chromatids are moving apart.                    | _____ 8. Animal cells begin to pinch in.                  |
| _____ 2. The nuclear membrane fades from view.                      | _____ 9. The spindle is formed.                           |
| _____ 3. A new nuclear membrane is forms.<br>around the chromosomes | _____ 10. Chromatids line up along the equator.           |
| _____ 4. The cytoplasm of the cell is being divided.                | _____ 11. Chromosomes are not visible.                    |
| _____ 5. The chromatin is found in the nucleus.                     | _____ 12. Cytokinesis begins.                             |
| _____ 6. The chromosomes are located at.<br>the equator of the cell | _____ 13. The cell plate in plants <b>begins</b> to form. |
| _____ 7. The spindles disappear.                                    | _____ 14. The reverse of prophase.                        |

## Fill in the blanks using the word bank below:

Interphase	Prophase	Anaphase	Telophase	Metaphase
Cytokinesis (2x)	Sister Chromatid	Centromere	Cell Plate	

- \_\_\_\_\_ 18. In what phase does the cell begin to split the cytoplasm and daughter cells first become visible in mitosis?
- \_\_\_\_\_ 19. During what phase of mitosis do centromeres divide and the chromosomes move toward their respective poles?
- \_\_\_\_\_ 20. What is the phase where chromatin condenses to form chromosomes?
- \_\_\_\_\_ 21. What is the name of the structure that connects the two sister chromatids?
- \_\_\_\_\_ 22. In a chromosome pair connected by a centromere, what is each individual chromosome half called?
- \_\_\_\_\_ 23. What is the step of cell division where 2 identical daughter cells are formed?
- \_\_\_\_\_ 24. Which phase of the cell cycle occurs when the cell is preparing to divide so it grows in size making organelles and copying DNA?
- \_\_\_\_\_ 25. What forms across the center of a plant cell near the end of telophase?
- \_\_\_\_\_ 26. What is the division of the cytoplasm called?
- \_\_\_\_\_ 27. During this phase chromosomes line up in the middle.
28. Why is mitosis important?