

# WORKSHEET: Cell Division

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

## Matching: Match the term to the description

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

- \_\_A\_\_ 1. The sister chromatids are moving apart.                      \_\_T\_\_ 8. Animal cells begin to pinch in.
- \_\_P\_\_ 2. The nuclear membrane fades from view.                      \_\_P\_\_ 9. The spindle is formed.
- \_\_T\_\_ 3. A new nuclear membrane is forms.  
          around the chromosomes                                      \_\_M\_\_ 10. Chromatids line up along the equator.
- \_\_C\_\_ 4. The cytoplasm of the cell is being divided.                      I or T\_ 11. Chromosomes are not visible.
- \_\_I\_\_ 5. The chromatin is found in the nucleus.                              \_\_C\_\_ 12. Cytokinesis begins.
- \_\_M\_\_ 6. The chromosomes are located at.  
          the equator of the cell    \_\_T\_\_ 13. The cell plate in plants **begins** to form.
- \_\_T\_\_ 7. The spindles disappear.    \_\_T\_\_ 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	

- \_\_Telophase\_\_ 18. In what phase does the cell begin to split the cytoplasm and daughter cells first become visible in mitosis?
- \_\_Anaphase\_\_ 19. During what phase of mitosis do centromeres divide and the chromosomes move toward their respective poles?
- \_\_Prophase\_\_ 20. What is the phase where chromatin condenses to form chromosomes?
- \_\_Centromere\_\_ 21. What is the name of the structure that connects the two sister chromatids?
- Sister Chromatid\_ 22. In a chromosome pair connected by a centromere, what is each individual chromosome half called?
- \_Cytokinesis\_\_ 23. What is the step of cell division where 2 identical daughter cells are formed?
- \_Interphase\_\_ 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?
- \_\_Cell Plate\_\_ 25. What forms across the center of a plant cell near the end of telophase?
- \_Cytokinesis\_\_ 26. What is the division of the cytoplasm called?
- \_\_Metaphase\_\_ 27. During this phase chromosomes line up in the middle.
28. Why is mitosis important? Tissue Repair and tissue growth (cell health, cell growth)