

MITOSIS

Name:

Date:

Answer the questions below.

1. What forms across the center of a plant cell near the end of telophase?
cell plate
2. What is the name of the structure that connects the two sister chromatids?
centromere
3. During this phase chromosomes line up in the middle.
metaphase
4. In a chromosome pair connected by a centromere, what is each individual chromosome half called?
sister chromatid
5. Which phase of the cell cycle occurs when the cell is preparing to divide so it grows in size making organelles and copying DNA?
interphase
6. During what phase of mitosis do centromeres divide and the chromosomes move toward their respective poles?
anaphase
7. What is the division of the cytoplasm called?
cytokinesis
8. What is the step of cell division where 2 identical daughter cells are formed?
telophase
9. In what phase does the cell begin to split the cytoplasm and daughter cells first become visible in mitosis?
cytokinesis
10. What is the phase where chromatin condenses to form chromosomes?
prophase