

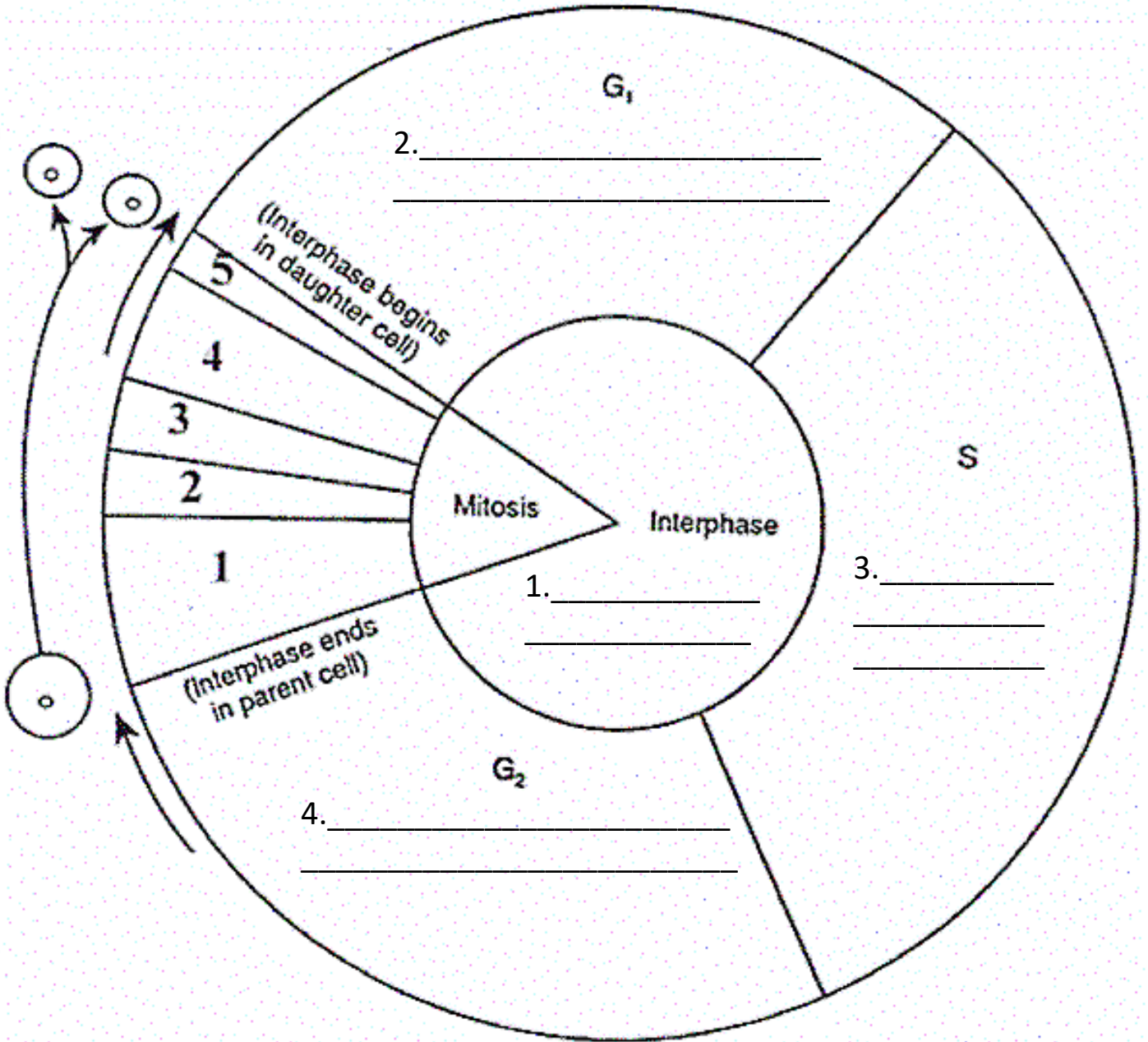
Cell Cycle and Mitosis

Name: _____

Date: _____

Pd. _____

Below is a diagram of the cell cycle. Provide information in each step to describe what is happening to the cell during this cycle. Use pages 182-188 for help.



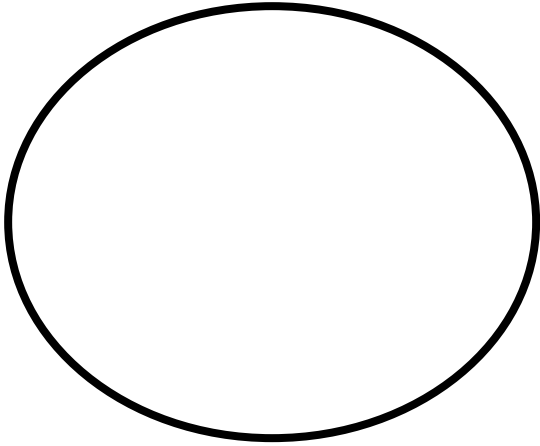
Mitosis can be used as a form of reproduction in ASEXUAL organisms. This will create an exact copy of the original organism. List and explain FOUR different forms of asexual reproduction below (use the index for help...):

- 1.
- 2.
- 3.
- 4.

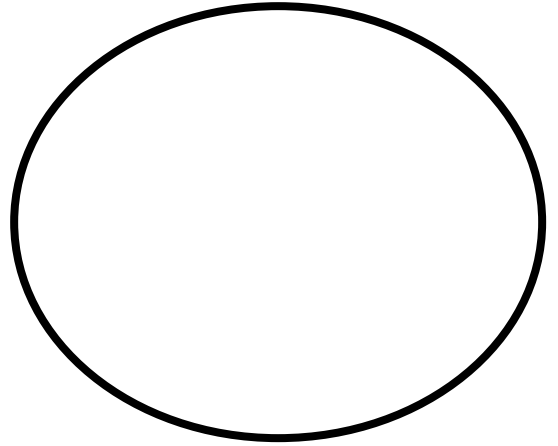
8. Define **MITOSIS**: _____

9. For each of the diagrams below, draw the chromosomes, microtubule spindle, and nuclear membrane in each phase of mitosis:

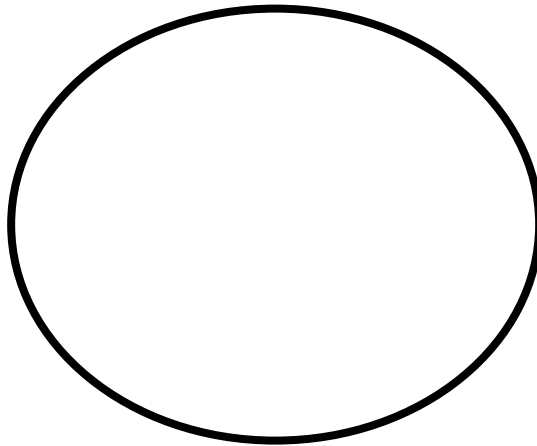
1: PROPHASE



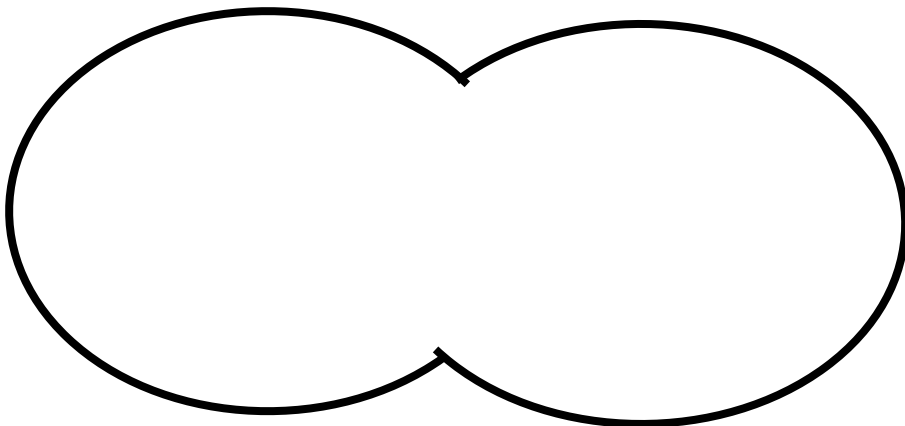
2: METAPHASE



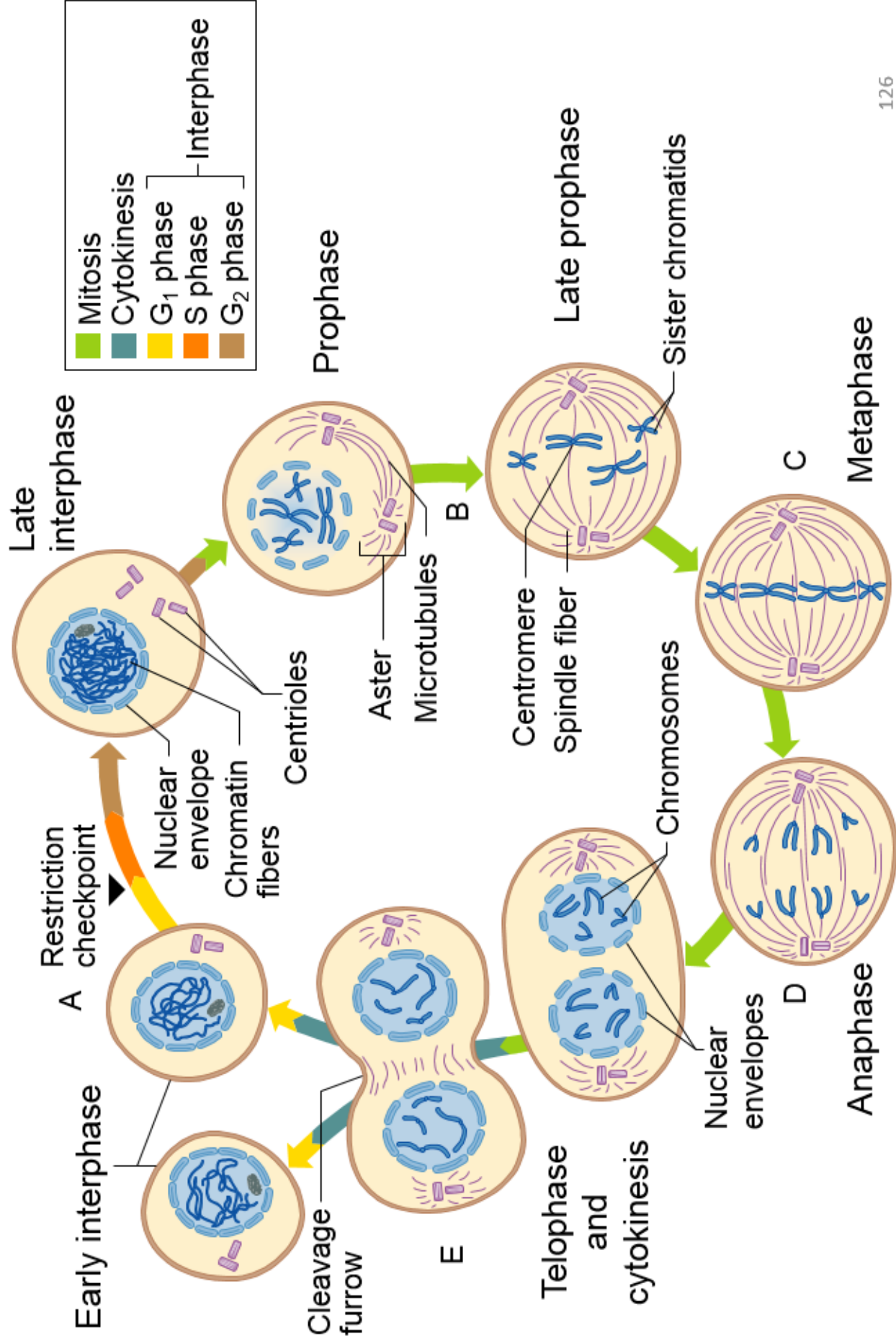
3: ANAPHASE



4: TELOPHASE (and cytokinesis)



Mitosis and cytokinesis



CK-12 Reading

- Go to weebly and read the ck-12 Cell cycle reading. Answer the questions below.
- (ANSWERS MUST COME FROM CK-12 Reading...not google searches)
- 1) Identify the phases of the eukaryotic cell cycle
- 2) What happens during Interphase?
- 3) Define Cancer
- 4) Cells go through a series of events that include growth, DNA synthesis and cell division. Why are these events best represented by the cell cycle?
- 5) Explain how the cell cycle is regulated?
- 6) Why is DNA replication essential to the cell cycle?