The Cell Cycle: Mitosis Matching

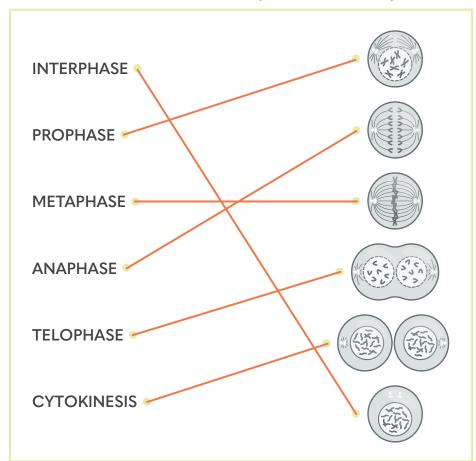
Show what you know about the cell cycle by answering the questions below!

PART 1. Describe what happens during each phase of the cell cycle. Sample Answers

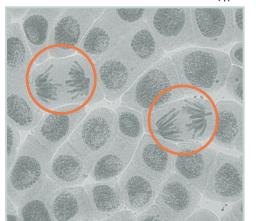
- a. Interphase: The cell grows and makes an identical copy of its DNA.
- b. Prophase: Chromatin winds up tightly into chromosomes. The nuclear envelope breaks down.

 Spindles form.
- c. Metaphase: The chromosomes line up in the center of the cell.
- d. Anaphase: The spindles pull the sister chromatids of each chromosome apart, resulting in two sets of identical chromosomes.
- e. Telophase: The spindle dissolves and nuclear envelopes form around the chromosomes of each cell.
- f. Cytokinesis: The cytoplasm divides and the two cells are completely separated.

PART 2. Draw a line to match the phase of the cell cycle to its diagram.



BONUS!



This is an image of onion root tip cells under a microscope. They are in various stages of mitosis. Can you find a cell in anaphase?