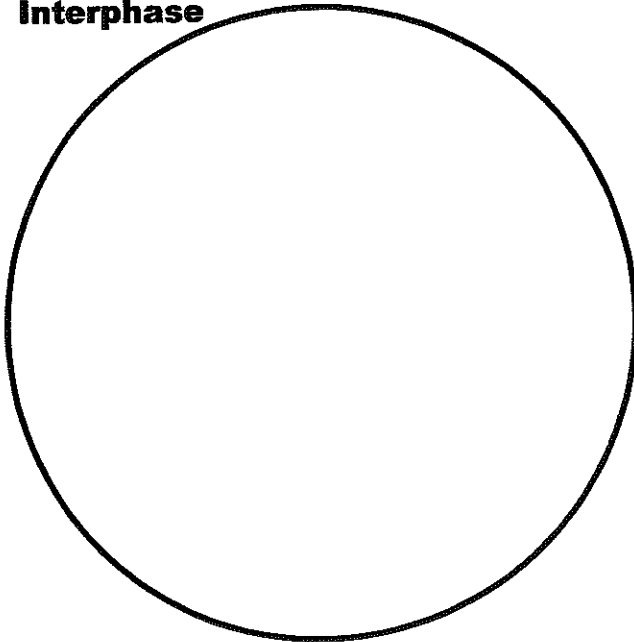


MITOSIS LAB

NAME: _____ DATE: _____ PERIOD: _____

Procedure: Use the prepared slides of onion or alium root tips to make a drawing of an actual cell of each stage listed below. **DO NOT DRAW PERFECT DIAGRAMS! DRAW WHAT YOU ACTUALLY SEE!** Answer the questions to the right after you complete all your drawings.

Interphase

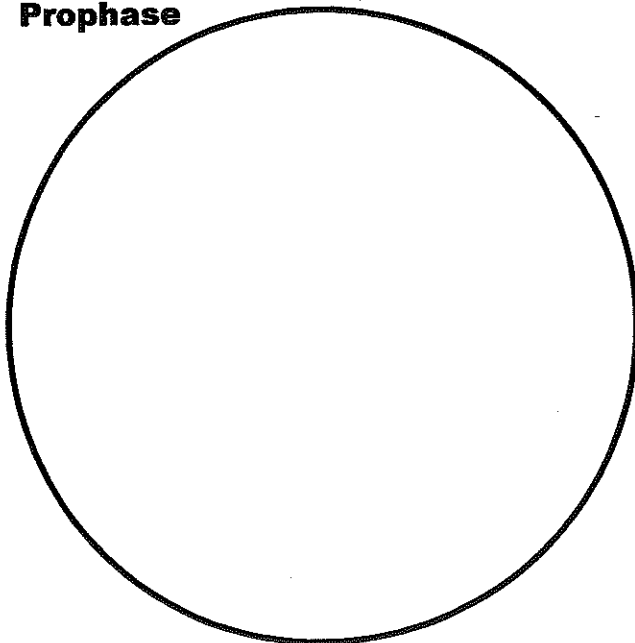


Questions:

1. What evidence did you observe that shows mitosis is a continuous process, not a series of separate events?

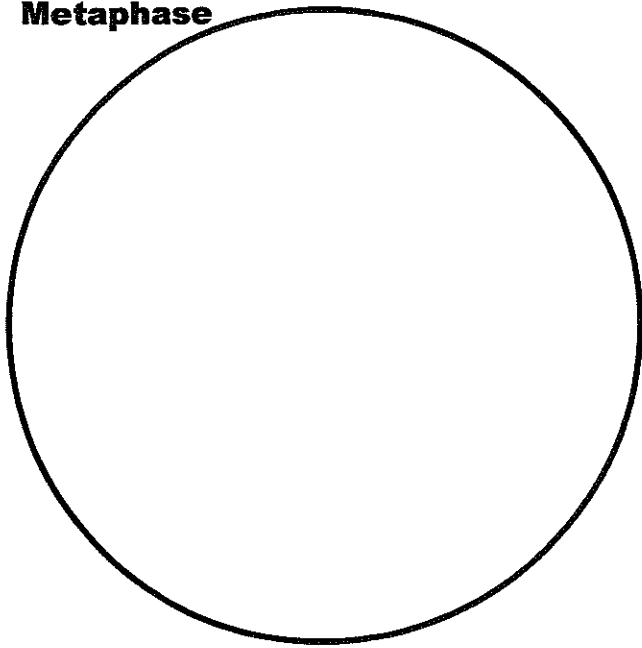
2. Compared to the diagrams completed in class, describe how much detail you were able to observe.

Prophase



3. In reference to the detail in the alium root tip slides, was it more or less than you expected to see?

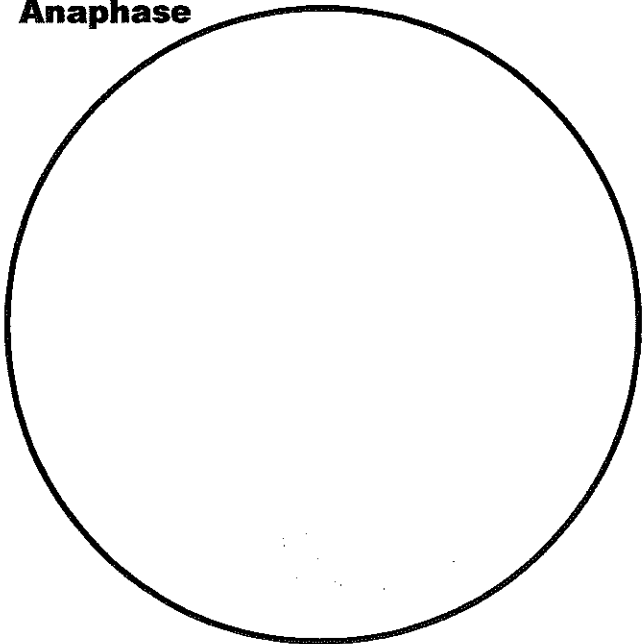
Metaphase



4. Data Table: In the space of your viewing area, count the number of cells in each stage of mitosis.

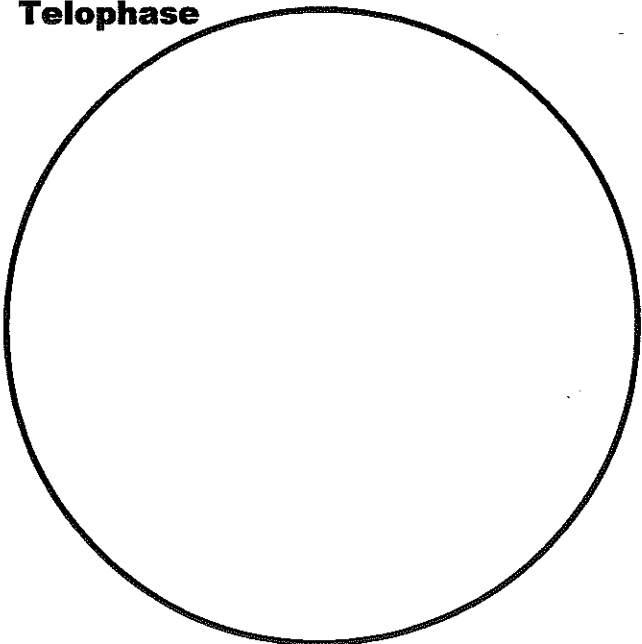
Data Table	
Phase	Number of Cells
Interphase	
Prophase	
Metaphase	
Anaphase	
Telophase	

Anaphase



5. What was the most prevalent stage observed in this lab?

Telophase



6. Why did you need to use the root tip of the alium plant? (*Hint: think of what is happening at the tip of the root rather than the middle.*)

7. Describe the chromosomes visible during cell division. How many chromosomes does this plant have?