

Recognizing Stages of Mitosis _____/. 30 marks

Name: _____

Date: _____

Purpose: - To recognize and record cells in the various stages of mitosis.

- To make inferences about the life cycle of cells.

Observations-

Stage	Sample Slides			Totals	Percent in each Stage
	1	2	3		
Prophase					
Metaphase					
Anaphase					
Telophase					
Interphase					
Totals					

1. Make sure all percentages are calculated and in your data chart. (5)

2. In what stage *of mitosis* are the majority of the cells? (1)

3. Which phases were difficult to identify? Explain how you decided which phase it was. (2)

5. Based on your observations does mitosis and cell division occur as a continuous process or a series of separate events? (2)

6. Life cycles of cells range from 24 hours to years. For our onion cells, assume that the percentage of cells in each phase of the cell cycle and mitosis represents the relative time the cell spends in that phase. How much of a cell's life cycle is spent in reproduction (mitosis)? How does that compare with the life cycle and reproductive cycle of humans? (4)

Conclusions <RERUN> 10 marks

R – recall – Describe what we did in one or two sentences – **remember** what we did - not Why we did it.

E – explain – Make the purpose a statement – this why we did it.

R – results – Report your findings (use numbers) **AND** answer the purpose

U – uncertainties or sources of error – if your numbers are very different from others try to explain possible reasons why.

N – New Knowledge - what did we learn about mitosis/cell division and the life cycle of a cell, where in real life may this be important.

One sentence for each part is the minimum in a conclusion.

Recall – _____

Explain- _____

Results - _____

Uncertainties- _____

New Knowledge - _____

