## MITOSIS Pre-Lab

ne:				en jedan er bere	Da	ite:	*****
al Points: 35					Du	ie Date	: - <u>***</u>
What are the two	parts of cell divisi	on? (2 points)	Ky 1		ng Parkin	e eegisti	
Where do plants a	grow? (2 points)				jiga Telik		et gewalan at although.
What type of plar	nt cell and animal o	cell will you be ob	serving	? (2 points)	i <del>s</del> egulat	in erus et	og 1865 i Nobel II.
Where will you fi	nd dividing cells i	n the onion root ti	p? (2 pc	oints)	darajoj Jar		
	le with the data be						
ase of the Cell Cycle	# of cells in field 1	# of cells in field 2		ls in field 3	Total#	of cells	% of total cells
erphase	100	120	96				
ophase	10	11	22				
etaphase	4	6	7				
aphase	2	4	8			-	
lophase	1	2	4				
XXXXX	XXXXXXX	XXXXXXX	Total				
Interphase	Prophase	Metaphase		Anaphase	•	Telo	ophase
	in an animal cell, ti	** ** ** ** ** ** ** ** ** ** ** ** **	n a pla				
What do you see		hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see i	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see i	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see i	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see i Describe what ha Interphase	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see i Describe what ha Interphase	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see i Describe what ha Interphase	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see in the property of the propert	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see in the property of the propert	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see in the property of the propert	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see in the property of the propert	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see in Describe what has Interphase  Prophase  Metaphase	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see in Describe what has Interphase  Prophase  Metaphase	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see in Describe what has Interphase  Prophase  Metaphase	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see in the Describe what has Interphase  Prophase  Metaphase  Anaphase	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)
What do you see in the Describe what has Interphase  Prophase  Metaphase  Anaphase	in an animal cell, t	hat you don't see	•	nt cell? (2 p	oints)	mitosis	. (10 points)

## MEIOSIS Pre-Lab

Name:	and the second second	 · · · · · · · · · · · · · · · · · · ·	Date:	
Total Points: 35			Due Date:	<u> </u>

- 1. What is the overall purpose of meiosis and how is this purpose accomplished? (2 points)
- 2. What does meiosis increase and how is this increase accomplished? (2 points)
- 3. How can you estimate the distance between two genes? (1 point)

4. Complete the table below. (16 points)

Stage Prophase I		Diagram	Description
Prophase I			
	en e		
Metaphase I			
			l disease de la companya de la comp La companya de la co
Anaphase I	. ,		
P			
14.4			
Telophase I	The state of the s		A CONTRACTOR OF THE CONTRACTOR
retophase r			
Prophase II			
1 Topitase II			
Metaphase II			
Metaphase II			
	The grade was		
Anaphase II			
Alaphase II			
Telophase II			
reiopitase II			

- 5. Describe the lifecycle of the organism used for the second half of the lab. (2 points)
- 6. What must occur in order for you to observe the crossing over? (1 point)
- 7. Compare the crossing over asci to the non-crossing over asci. (4 points)

**Crossing Over** 

Non-crossing over

- 8. What controls the frequency of crossing over? (1 point)
- 9. Complete the table below. (3 points)

# of 4:4 Asci	# of Asci showing crossing over	Total # of Asci	% of Asci showing crossing over	Gene to centromere distance in map units
	and the second s	त्रमात्रम् स्थापने स्थापने स्थापने हरू हो। स्थापने स्थापने स्थापन		

10. Diagram the chromosome with the appropriate gene to centromere distance as determined in question #9. (3 points)

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