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Mitosis Practice Worksheet

Name _____ Date _____ Per _____

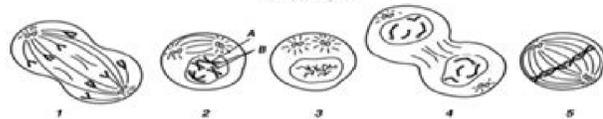
Complete the worksheet using the Basic Genetics website (link on the wiki) or your textbook.
www.Bussebio.wikispaces.com

Part 1 Directions: Match the description with the part of the cell cycle:

- | | |
|---------------------------------------------------------------------------|----------------|
| ___ 1. The chromosomes line up across the middle of the cell. | A. Interphase |
| ___ 2. The cell grows, matures, and eventually copies its DNA. | B. Prophase |
| ___ 3. The chromatids are pulled apart, to opposite ends of the cell. | C. Metaphase |
| ___ 4. The chromatin forms chromosomes, nuclear membrane gone. | D. Anaphase |
| ___ 5. The cell membrane pinches in, dividing the cytoplasm into 2 cells. | E. Telophase |
| ___ 6. A nuclear membrane forms around both sets of chromatids. | F. Cytokinesis |

Part 2 Directions: Match the illustration with the part of the cell cycle: (use above letters from questions 1-6)

The Cell Cycle



1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Part 3 Directions: Using the illustration from part 2, arrange the number of illustrations 1 – 5 in the correct order for the process of mitosis. Write the order below.

Part 4 Directions: Answer the following questions.

1. What stage do cells spend most of their lives in? _____
2. If a normal human cell has 46 chromosomes how many chromosomes will it's daughter cell have? _____
3. Do the illustrations from Part 2 show images of a plant or animal cell? _____
4. If Part 2 represented the OTHER type of cell what about the cells would be different? _____

There's more on the back don't forget...

Onion Root Tips - Phases of Mitosis/Computer Activity

Visit this web page: http://www.biology.arizona.edu/cell_bios/activities/cell_cycle/cell_cycle.html

Read the information, answer the following questions!

1. What organism was used to collect the cells from?
2. How are the slides prepared?
3. Which phase of the cell cycle is not considered part of mitosis?
4. What does it mean to say that the five phases of the cell cycle are "arbitrary"?

Click Next! In the chart below draw a diagram and give a brief description of a cell in each cell cycle phase.

Phase	Drawing of a cell in the phase	Description of the major events
Interphase		
Prophase		
Metaphase		
Anaphase		
Telophase		

Click Next!

Follow the directions of the activity and fill in the information in the table below.

Click on the phase that the shown cell belongs to. If the cell is incorrectly placed you will have to do this again.

	Interphase	Prophase	Metaphase	Anaphase	Telophase	Total
Number of Cells						
% of Total Cells						

Count the number of cells in each phase and calculate the percents. Fill in the boxes above.

5. On the back of this page create a bar graph showing the percentage of cells in each phase in the sample.
6. Which phase is the longest cell cycle phase?
7. Which phase is the shortest cell cycle phase?
8. On the back of this page write two test questions that could come from this activity and answer them!

Answers:
 1. Interphase
 2. 46
 3. Animal cell
 4. Plant cell would have a cell wall and a large central vacuole.

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