

Name: _____ Class Period _____ Date: _____

Mitosis Video: Homework questions
(Assigned 1/7A, 1/8B- Due 1/13)

1. Define and contrast each of the following terms:

Chromosome-

Chromatin-

Chromatid-

Centromere-

Kinetochores-

2. List 3 reasons that cells divide.
3. Which cell cycle phase do cells spend the most time in? What happens during this phase?
4. List 3 cell cycle "check points". What is a "check point"?

True/False. Indicate whether the statement is true or false. Correct the false statements.

5. _____ The nucleus remains intact throughout mitosis.
6. _____ The spindle is made up of microtubules, which are carbohydrate subunits that assemble during prophase and disassemble during anaphase.
7. _____ During metaphase, sister chromatids align at the equator of the cell.
8. _____ The timing of cell division is constant. Cell division in all cell types occurs at the same rate.
9. _____ Plant and animal cells undergo cytokinesis the same way.
10. _____ Mitosis is an asexual process.