Biologix: Cell Cycle Mitosis and Cytoplasmic Division

MITOSIS:
1. The process of nuclear division is called: _____________________________
2. The division of the ___________________ is called cytokinesis.
3. What is the control center of the cell? _____________________________
4. In a normal mammalian cell the cell cycle lasts how long? _____________________________
5. Mitosis take __________ hours
6. What is replicated in the S-Phase? __________-
7. ___________________ are synthesized, or made, in the G2 Phase
8. In the experiment, what is the “line” that the female student is viewing? ________________
9. Mitosis occurs in _________ (#) phases
10. ___________________ attach the sister chromatids together to make them a chromosome
11. In Metaphase the chromosomes are lined up in the _________________ of the cell
12. Inactivity causes cells to __________________

CANCER:
13. Aging is the “____________________” of cancer
    ________ minutes in Metaphase
    ________ minutes in Anaphase
    ________ minutes in Telophase
15. In cancer you have stimulating factors and loss of _________________ factors that cause the cells to continue mitosis and cause tumors
16. What is still the most common method of treating cancer? _____________________________
17. This treatment is supplemented with Radiation Therapy & _____________________________
18. Radiation doesn’t kill the cancer cells instead it causes the DNA to mutate so the next time your cell is ready to multiply it _________________ because the DNA is ineffective
19. The chemotherapy medicine attached to the ___________________ to disrupt mitosis and no longer allow the cell to multiply.
20. Mitosis continues until _______________________