**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_**

**Mitosis, Meiosis & Cancer Review Sheet**

1. Distinguish between diploid & haploid cells.

2. If an organism’s diploid number is 8, what is its haploid number?

3. What process results in the production of gametes?

4. What is crossing-over?

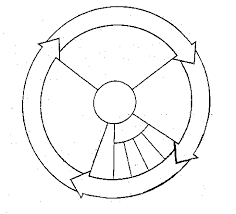
5. Why is meiosis often referred to as “reduction division”?

6. Are the cells produced by mitosis haploid or diploid?

7. Are the cells produced by meiosis haploid or diploid?

8. Why do cells divide rather than continue to grow larger?

10. What is the cell cycle?

11. Label the cell cycle diagram

12. Duplicated chromosomes consist of 2 sister chromatids. What is the name of the structure

that connects the chromatids together?

13. Identify the process cells use to repair damaged/injured tissue.

14. Compare mitosis & meiosis by completing the following chart:

|  |  |  |
| --- | --- | --- |
|  | **Mitosis** | **Meiosis** |
| **Type of cells produced** |  |  |
| **# of divisions** |  |  |
| **Chromosome #** |  |  |
| **DNA replication** |  |  |
| **Crossing Over** |  |  |
| **# of cells produced** |  |  |
| **Daughter cells in relation to parent cell** |  |  |

15. What is cancer?

16. Distinguish between a benign tumor and a malignant tumor.

17. Identify three causes of cancer.

18. Describe 3 treatments for cancer.

**Bonus:** One discussion question from the Cancer Warrior will be included (+3 bonus points)