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

**Cell Division Quiz**

Answer the following questions:

1. In what cellular processes is mitosis involved? In what cellular processes is meiosis involved?

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1. In what type of cells does mitosis occur? In what type of cells does meiosis occur?

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1. How many times does DNA replicate in mitosis? How many times does DNA replicate in meiosis?

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1. How many cellular divisions occur in mitosis? How many cellular divisions occur in meiosis?
2. How many daughter cells are formed by mitosis? How many daughter cells are formed by meiosis?

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1. What is the chromosome number in daughter cells formed by mitosis from diploid parent cells? What is the chromosome number in daughter cells formed by meiosis from diploid parent cells?

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1. In mitosis, are daughter cells identical to or different from parent cells? In meiosis, are daughter cells identical or different from parent cells?
2. In mitosis, when do synapsis and crossing over occur? In meiosis, when do synapsis and crossing over occur?
3. The checkpoint that requires a cell to be of adequate size in order to move forward is
4. If DNA is damaged at the G2 checkpoint what happens to the cell cycle?
5. Apoptosis represents genetically programmed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Which is NOT correctly associated with cancer?
7. Metastasis establishes new tumors distant from the site of the primary tumor
8. The disorganized mass of cells is encapsulated and does not invade adjacent tissue.
9. Contact inhibition is when a cell ignores a signal from the neighboring tissue and continues to divide.
10. Chemotherapy and radiation act as anti mitotic agents.
11. Which of the following is the correct sequence of the cell cycle in human cells?
12. G1 to G2 to S to M
13. G1 to M to G2 to S
14. G1 to G2 to M to S
15. G1 to S to G2 to M