

20 points

Homework #4.5 Mitosis versus Meiosis

Directions: Write answers next to the question.

1. Describe the purpose of mitosis _____
2. How many times does the cell divide during mitosis? _____
3. What kind of cells are produced at the end of mitosis? _____
4. Briefly describe what happens during prophase _____
5. Briefly describe what happens during metaphase _____
6. Briefly describe what happens during anaphase _____
7. Briefly describe what happens during telophase _____
8. Briefly describe what happens during cytokinesis. _____
9. Describe the purpose of meiosis _____
10. How many times does the cell divide during Meiosis? _____
11. What kind of cells are produced at the end of meiosis? _____
13. Predict what happens if a gamete will get a full set of chromosomes and not half.

14. How does the crossing over of chromosomes in meiosis lead to variation?

15. How many chromosomes will each daughter cell have? (3 points each)

