

Name _____

Date _____

My Toe and My Oh!

1. What is the definition of mitosis? _____

2. What is the definition of meiosis? _____

3. Put these in order:

Metaphase Telophase Prophase Anaphase Interphase

4. Which of the above words describes when the chromosomes are lined up in the middle?

5. Which of the above words describes when the chromosomes are very far apart?

6. Which word describes when chromosomes are all mixed up?

7. What is it called when chromosomes START to pull apart?

8. What is it called when DNA FIRST bunches up into chromosomes?

9. Is mitosis used for sexual or asexual reproduction?

10. Is meiosis used for sexual or asexual reproduction?

11. If a cell starts out with 10 chromosomes at the beginning of interphase in MITOSIS, how many does it have at the beginning of the NEXT interphase?

12. If a cell starts out with 10 chromosomes at the beginning of interphase in MEIOSIS, how many does it have when the cells are done dividing?

13. In MITOSIS, a cell divided into _____ cells. In MEIOSIS, one divides into _____

14. Name one human cell which has undergone meiosis.

15. Why is it important that a sex cell only contain half the DNA of a normal cell?

16. Of the four cells produced, how many eggs are usable?

17. Of the four cells produced, how many sperm are usable?

18. Draw a nucleus in Interphase

19. Draw a nucleus in Prophase

20. Draw a nucleus in Metaphase

21. Draw a nucleus in Anaphase

22. Draw a nucleus in Telophase

23. Draw a nucleus that has split