**Watch It!: Meiosis: Amoeba Sisters, the Great Divide**

Go to <https://www.youtube.com/watch?v=toWK0fIyFlY>, watch the video and answer the questions below.

1. How many chromosomes do all somatic (body cells) have?

2. Which cells in the human body do not have 46 chromosomes?

3. Why do these cells not have 46 chromosomes?

4. What is another term for sperm and egg cells?

5. What do the cells formed from meiosis look like?

6. What is the purpose of mitosis?

7. What do the cells formed from mitosis look like?

8. What cells are formed as a result of meiosis?

9. What is the first phase of meiosis?

10. How often does meiosis occur?

11. How many times will meiosis divide?

12. How do we distinguish between the first division of meiosis and the second division of meiosis?

13. How do chromosomes line up in Prophase I?

14. What does homologous mean?

15. How do chromosomes transfer their genetic information in Prophase I? What is this process called?

16. What happens during Metaphase I?

17. What happens during Anaphase I?

18. How many cells are created in Telophase I?

19. What happens in Prophase II?

20. What happens in Metaphase II?

21. What happens in Anaphase II?

22. How many cells are created as a result of Telophase II?

23. What is the purpose of meiosis in males? What is the purpose of meiosis in females?

24. How do the four cells produced as a result of meiosis look compared to one another?

25. How do the four cells produced as a result of meiosis look compared to the starting cell?

26. How many chromosomes does a cell ***undergoing meiosis*** start with?

27. How many chromosomes does a cell ***produced by*** meiosis have?

28. What is it called when the chromosomes don’t separate properly in meiosis?

29. What can this process (in #28) cause?