

Amoeba Sisters Video Select Recap: Mitosis vs. Meiosis Comparison

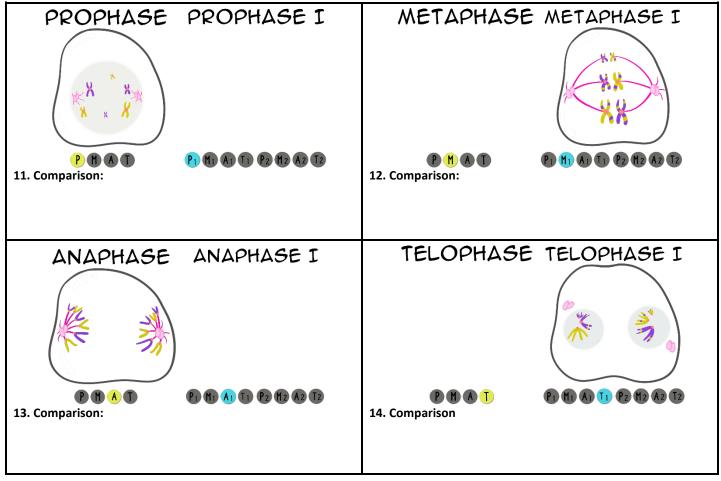
 1. In humans, the starting cell in this process has 46 chromosomes. MITOSIS MEIOSIS BOTH 2. A stomach cell would be an example of a starting cell in this process. MITOSIS MEIOSIS BOTH 3. The starting cell in this process will have twice the number of chromosomes as the final daughter cells. 				
 2. A stomach cell would be an example of a starting cell in this process. MITOSIS MEIOSIS BOTH 3. The starting cell in this process will have twice the number of 				
MITOSIS MEIOSIS BOTH Example of starting cell in meiosis: A The starting cell in this process will be diploid (A The starting cell in this process will be diploid) (A The starting cell in this process will be diploid) (A The starting cell in this process will be diploid)				
4. The starting cell in this process will be diploid. or primary oocyre (remales) MITOSIS MEIOSIS				
5. The starting cell in this process will be identical to the daughter cell. MITOSIS MEIOSIS BOTH				
6. The starting cell must duplicate its chromosomes in interphase before mitosis or meiosis can begin. Does this change the number of chromosomes ? Chromatids ? Both? How many of each would you expect in a human cell after interphase ?				
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Consider a mosquito with six chromosomes for the next questions. This info will be used for illustrations on the next page.				
7. What would the function of mitosis be in the mosquito?				
8. How many chromosomes would you expect to be in the daughter cells of the mosquito after mitosis ?				
9. What would the function of meiosis be in the mosquito?				
10. How many chromosomes would you expect to be in the daughter cells of the mosquito after meiosis ?				





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In the blank white spaces, create your own illustrations of mitosis (on left in each box) or meiosis (on right in each box) for an organism with six chromosomes. Some have been completed for you. Then, write **2 comparison sentences** comparing the two stages.



15. What is the splitting of the cell's cytoplasm that occurs after telophase called?

16. Did crossing over occur in both mitosis, meiosis, or both? ______ When? ______

Now to continue on to meiosis II! Create your own illustrations to show your understanding of meiosis II.

Prophase II (Example)	17. Metaphase II	18. Anaphase II	19. Telophase II
X X X			
P1 M1 A1 T1 P2 M2 A2 T2			

20. What are 3 differences between the daughter cells made from mitosis vs. the daughter cells made from meiosis?

