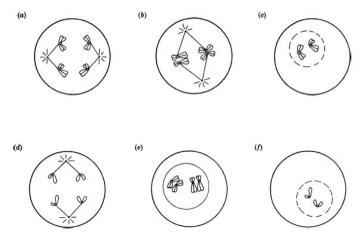
Name	·	Hour:
	<u>Me</u>	iosis Review
1. Con	nplete the table below in regards to meiosis .	
	# of times the DNA doubles	
	How many times the cell divides	
	How many cells are produced as a result	
	Cells produced are:	Diploid (2n) OR Haploid (1n)
	Compared to parent cell	Identical OR Not Identical
	Used to make:	Body Cells OR Sex Cells
	at is the purpose of meiosis? at is synapsis? Why is it important?	
3. Wha 4. Wha 5. If a	at is synapsis? Why is it important? at is the difference between diploid and haploid c cell with a diploid number of 2n=50 undergoes me	ells? What is an example of each type in our body? eiosis, how many chromosomes will the four cells at the end of
3. Wha 4. Wha 5. If a meiosi	at is synapsis? Why is it important? at is the difference between diploid and haploid c	eiosis, how many chromosomes will the four cells at the end of of 2n = 32, gg cells?
3. Wha	at is synapsis? Why is it important? at is the difference between diploid and haploid c cell with a diploid number of 2n=50 undergoes mais have? n alligator has a diploid number of chromosomes of a. how many chromosomes will be in its e	eiosis, how many chromosomes will the four cells at the end of of 2n = 32, gg cells? kin cells?
3. Wha 4. Wha 5. If a meiosi 6. If ar	at is synapsis? Why is it important? at is the difference between diploid and haploid concell with a diploid number of 2n=50 undergoes makes have? In alligator has a diploid number of chromosomes will be in its endergoes will be in its endergoe	eiosis, how many chromosomes will the four cells at the end of of 2n = 32, gg cells? kin cells?
 What What If a meios If ar Wh Fill in the meios 	at is synapsis? Why is it important? at is the difference between diploid and haploid concell with a diploid number of 2n=50 undergoes makes have? In alligator has a diploid number of chromosomes of a. how many chromosomes will be in its e. b. how many chromosomes will be In its so that is a homologous pair? What are they also know the blanks about the steps of meiosis below: In Prophase I, the big difference is that During Prophase I, may swap some of their genetic information	eiosis, how many chromosomes will the four cells at the end configure 2n = 32, gg cells? kin cells? vn as? occurs in which homologous chromosomes pain may occur in which homologous chromosome

9. Label the images below with what step in meiosis they are depicting. ALSO, number them in order (yes there are some stages missing, but chronologically put them in order 1 being first).



- 10. What is a zygote?
- 11. What sex chromosomes do females have? What about males?
- 12. Genetic diversity is important for our species to survive, it ensures that individuals are not identical and have a variety of traits. What are the THREE sources of genetic variation in sexually reproducing species?
- 13. What is spermatogenesis? What is oogenesis?
- 14. Give 2 ways spermatogenesis differs from oogenesis.
- 15. What is a karyotype?
- 16. What kind of information can you learn from a karyotype?
- 17. Down Syndrome can easily be identified on a karyotype, what would you look for?
- 18. What is nondisjunction?
- 19. Explain what happens in the following mutations:
 - a. Deletion -
 - b. Duplication -
 - c. Inversion -
 - d. Translocation -