Summany	Questions:		
Summary	Questions.		

Name

1- Write the GENES of your chromosomes in the space below. Whatever order they are found on the chromosome should be the order of the genes written below. Make sure and number the chromosomes. If you want use large X's to represent chromosomes and write the genes on them













2- What is the DIPLOID number of the cell you created?

2n = 6 (count the Chromosomes above)

3- Explain the function of Replication in the S phase of MeiosisDraw a picture of a chromosome before and after it has been replicated
Doubles the DNA. Not B B Replicated
Makes identical copies replicated (b) (c) Replicated
4- What are two BIG differences that occur in Prophase I of meiosis that don't occur in mitosis.
Homologous Chromosomes form
a tetrad 2 chromo. W/ H chromatids, 6600
5- What is the purpose of Crossing Over?
Exchanges Segments of DNA (XXXX)
from Non-Sister chromatids between WASTS

of mitosis. (both cells would come from your 2n = 6 cell) You can answer this with a picture.

Mitosis Mei I L All Chromo Somes Align

7- How many chromosomes are being pulled to the poles of the cell during ANAPHASE I of Meiosis? (Hint: replicated chromosomes are considered single chromosomes with 2 chromatids)

chromosomes each way ... still replicated

8- How are the chromosomes different in ANAPHASE I that are being pulled to the poles of the cell versus the chromosomes that are pulled toward the poles in ANAPHASE of mitosis.
Anaphase I Anaphase Mitosis
Homologous chromosomes sister chromatids separated
Separated from Tetrad Still Replicated Every Replicated Chromosome Splits. 9- Explain why the cells that are being created after TELOPHASE I and during CYTOKINESIS are Haploid
They have HALF as much DNA/Chromosomes.
Cell starts W/ 6 Ends W/ 3 10- Why do the chromosomes not Double before MEIOSIS II
They are Still Replicated after meiosis I
11- Explain how Metaphase II of Meiosis is different than Metaphase I of Meiosis
Met I XX Tetrads Align 12- Explain how Anaphase II is different than Anaphase I of Meiosis. Met II Single Replicated chromosomes Align
Ana II - Sister chromatids separate (2)
Ana I-Tetradis Separate
13- a. How many Cells are created at the end of Telophase II and Cytokinesis II?
H haploid cells.
b. Draw the Gametes created and Write the Genes that are being Passed on to the offspring. (yours might be different)
By the different of the second
14- How many of the Gametes are Identical to each other? Explain!
O. None Nunca
15- What two processes led to the creation of Gametes that are not Identical (variation)?
Crossing Over & Independent Assortment
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Prophase I Metaphase I

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