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Meiosis Worksheet

Identifying Processes On the lines provided, **order** the different stages of meiosis I THROUGH meiosis II, including interphase in the proper sequence.

1. _____ homologous chromosome line up in the center of the cell
2. _____ spindle fibers pull homologous pairs to ends of the cell
3. _____ 4 haploid (N) daughter cells form
4. _____ cells undergo a round of DNA replication
5. _____ sister chromatids separate from each other
6. _____ 2 haploid (N) daughter cells form
7. _____ spindle fibers attach to the homologous chromosome pairs
8. _____ individual chromatids move to each end of the cell
9. _____ crossing-over (if any) occurs

Short Answer

10. Compare the number and type of cells that result from meiosis vs. mitosis.

11. How do the genetic contents of cells resulting from mitosis and meiosis differ?

12. **Comparing and Contrasting** Describe a similarity and a difference between meiosis I and meiosis II.

13. **Applying Concepts** If a diploid cell containing 28 chromosomes undergoes meiosis, how many chromosomes will each daughter cell have?

14. **Compare and Contrast:** How are mitosis and meiosis similar and different?

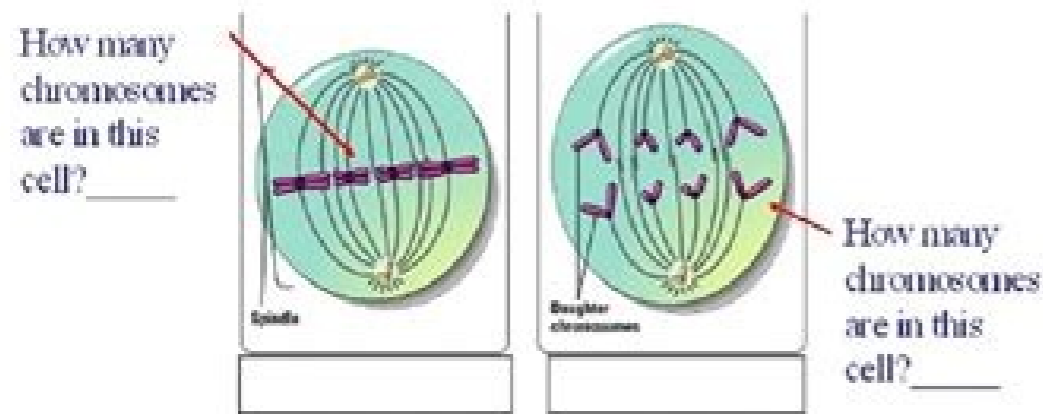
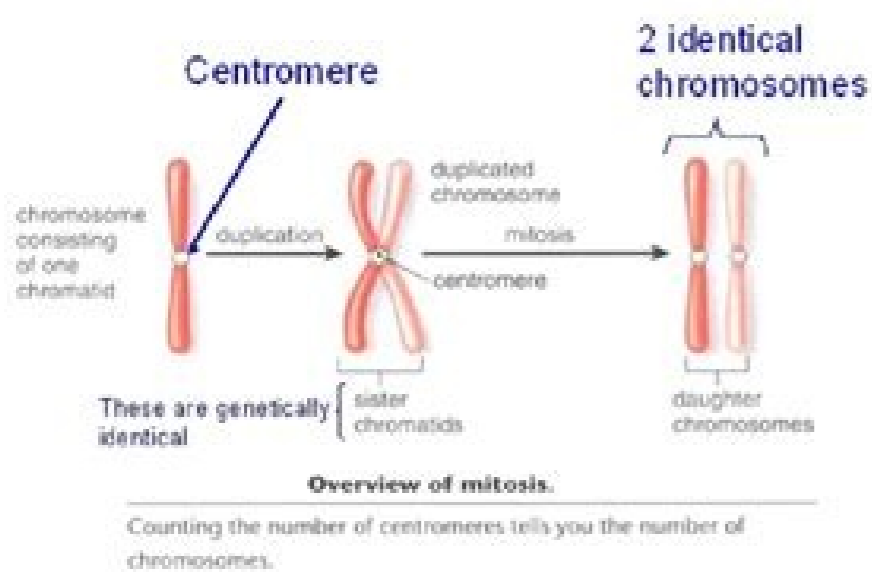
DIPLOID and HAPLOID WORKSHEET

Complete the following table of chromosome number in various species. Find the pattern using the information provided.

Species Name	# chromosomes in diploid cells	# chromosomes in haploid cells
Human	46	23
House fly		6
Monkey		21
Bat	44	
King crab	208	
Goat		30
Rice	24	
Armadillo		32
Chicken		39
Leopard frog	26	

1. Describe the pattern you saw in the data.
2. Mathematically, how could you represent this pattern?
3. What do you think diploid means? Explain your answer using information from the data table.
4. What do you think haploid means? Explain your answer using information from the data table.
5. What cells in living organisms are diploid?
6. What cells in living organisms are haploid?

1. What is a karyotype? You did this in lab!
2. What are homologous chromosomes? How many pairs of homologous chromosomes are found in humans? Chromosomes that are similar in size, shape, and genetic material. One homologue is inherited from mom. One from dad. Homologous chromosomes are separated in meiosis when gametes form. Humans have 23 pairs of homologous chromosomes.
3. Label the diagrams below:



There are four chromosomes in the diagram on the left (count centromeres): Metaphase - Mitosis
There are 8 chromosomes in the diagram on the right (count centromeres): Anaphase - Mitosis

Species	Diploid (2n)	Haploid (n)
Human	46	23
House fly		6
Monkey		21
Bat	44	
King crab	208	
Goat		30
Rice	24	
Armadillo		32
Chicken		39
Leopard frog	26	

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