Period: _____

Chromosome, Mitosis, & Meiosis Review



4. Mr. and Mrs. Robinson are expecting a child, but their karyotype shows an abnormality in chromosome pair 23 (all other chromosomes appear normal). What is the notation for this karyotype?



Mitosis & Meiosis

1

5. Identify each of the following stages:



6. Using the letters from the picture above, place the steps in the correct order of the cell cycle.

1: 2: 3: 4: 5:

7. Examine the 18 drawings of cells below. Write the letter of the stage of the cell cycle in the space below.Choices: Interphase (I), Prophase(P), Metaphase(M), Anaphase(A), Telophase(T)



7	8	9	10	11	12
13	14	15	16	17	18

Α

	Chromosomes are split in half with each chromatid moving towards one end of the cell DNA created, or duplicated Nucleus <u>re</u> forms Chromatin winds into chromosomes G1, S, G2 stages occur Spindle fibers form					ne end of the cell	Crossing over of homologous chromosomes occurs Homologous chromosomes (tetrads) are separated Sister chromatids move to opposite ends of the cell Homologous chromosome pairs line up in the middle of the cell Synapsis Occurs (tetrads are formed)		
	Nerve cells would transmit signals to and from the brain Spindle fibers attach to centromeres of chromosomes chromosomes Cell performs its normal functions Additional mitochondria, lysosomes, golgi bodies, etc. are formed						 13. Meiosis differs for males and females. Write the term for the each of the following: a. Production of egg cells in female ovaries		
	Spindle Nucleu Cell en In meio	e fibers pull ch 1s dissolves 1larges 5sis I, synapsis 1sh cello2 Circ	romosomes to s & crossing o	o middle of the c ver occur	ell		14. Compare and contrast Mitosis and Meiosis <u>Mitosis</u>		
9. Mi Skin	Nerve	Blood	Egg	sperm	Somatic	Brain			
Skin	Nerve	Blood	Egg	Sperm	Somatic	Brain			

Number 1 has been completed for you.

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