SECTION 1: MEIOSIS

In your textbook, read about meiosis I and meiosis II.

Label the diagrams below. Use these choices:

anaphase I prophase I	anaphase II prophase II	interphase telophase I	metaphase I telophase II	metaphasi	e II
1. prophase I	2. prophase II	3. telophase	II 4. interp	hase	5. anaphase I
(XX)				*	
ON INC.	3 €			K X	
6. telophase I	7. anaphase	II 8. metapi	hase I 9. m	etaphase II	

- Using the pictures & phases above, describe what is happening in each phase:
 - Interphase: G1 cell grows; S-DNA is duplicated; G2 cells grows & makes sure all the organelles are duplicated.
 - Prophase I: nuclear membrane breaks down; nucleolus disappears; centrioles begin to migrate to opposite sides of the cell; spindle fibers begin to form; homologous chromosomes form; crossing over occurs
 - c. Metaphase I: homologous chromosomes are lined up down the middle of the cell
 - d. Anaphase I: homologous chromosomes are pulled apart & sister chromatids are pulled to opposite sides of the cell, cell has gone from diploid to haploid
 - Telophase 1: nuclear membrane reforms, nucleolus reappears; spindle fibers disappear; cell divides in 2
 - Prophase II: nuclear membrane breaks down; nucleolus disappears; centrioles begin to migrate to opposite sides of both cells; spindle fibers begin to form; sister chromatids form
 - g. Metaphase II: sister chromatids are lined up down the middle of both cells.
 - Anaphase II: sister chromatids are pulled apart & chromosomes are pulled to opposite sides of both cells
 - Telophase II: nuclear membrane reforms in the 4 cells, nucleolus reappears; spindle fibers disappear; cell divides into 4 genetically different cells

Biology Meiosis Guide Answers

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