

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Hour: \_\_\_\_\_

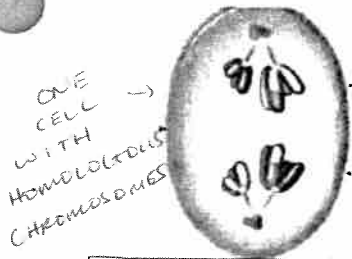
## MITOSIS & MEIOSIS REVIEW

Label each fact below with a specific step in meiosis I or meiosis II.  
Phases can be used more than once or not at all.

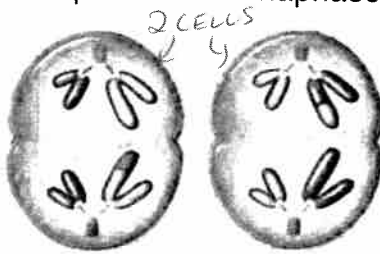
Name of Phase	Description
A. PROPHASE I	Homologous chromosomes <b>pair up</b>
B. ANAPHASE I	Spindle fibers move <b>one</b> of the homologous chromosomes to opposite sides
C. TELOPHASE II / CYTOKINESIS II	Nuclear membrane reforms, cytoplasm divides, 4 daughter cells formed
D. METAPHASE II	Chromosomes line up <b>single file</b> along equator.
E. PROPHASE I	Crossing-over occurs
F. ANAPHASE II	Chromatids separate
G. METAPHASE I	Homologous <b>pairs</b> line up along equator
H. TELOPHASE I / CYTOKINESIS I	Cytoplasm divides, 2 daughter cells are formed

Label pictures # 1 – 8 with each of the phases. Each picture represents ONE phase.

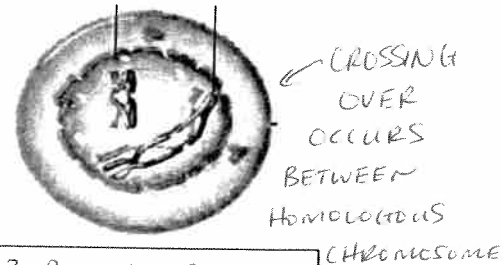
Prophase I → Metaphase I → Anaphase I → Telophase I  
Prophase II → Metaphase II → Anaphase II → Telophase II



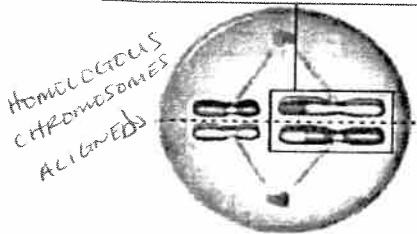
1. ANAPHASE I



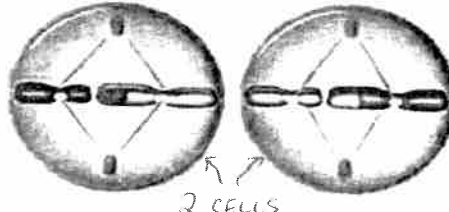
2. ANAPHASE II



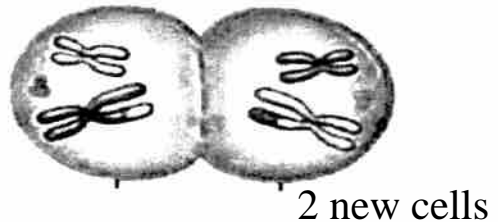
3. PROPHASE I



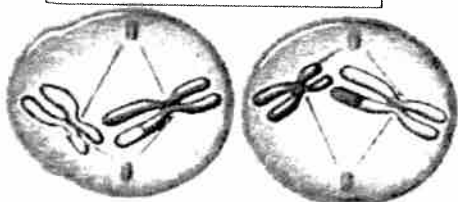
4. METAPHASE #1



5. METAPHASE II



6. TELOPHASE I / CYTOKINESIS



7 Prophase II



8. TELOPHASE II / CYTOKINESIS II

4 Daughter Cells

NO Crossing Over

Place a check in box (or boxes) to indicate which the event occurs in (some events might have checks for both mitosis and meiosis).

	Meiosis	Mitosis
Two cell divisions	X	
Occurs in heart cells (Somatic Cells)		X
Centrioles appear	X	X
Homologous chromosomes form tetrads	X	
Creates diploid cells		X
Spindle fibers form	X	X
Sister chromatids separate (Meiosis Meta - II)	X (II)	X
Occurs in ovaries and testes	X	
Creates haploid cells	X	
One cell division		X
Four daughter cells	X	