

Meiosis

$$2n = 4$$

Interphase

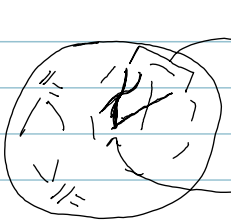


nuclear membrane

DNA replicates



Prophase I

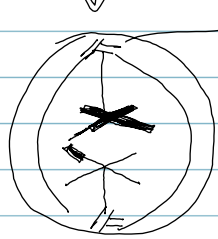


Tetrad of Homologous Chromosomes
* Synapsis

Chiasmata
- where crossing over occurs



Metaphase I

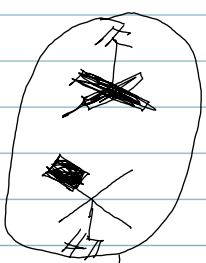


centrioles

Independent Assortment



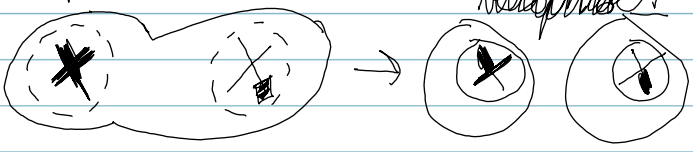
Anaphase I

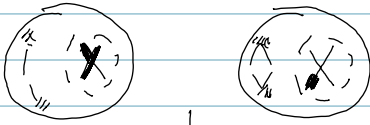


Homologous Chromosomes separate

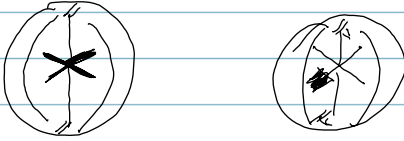
Cytokinesis
Telophase I

Telophase I

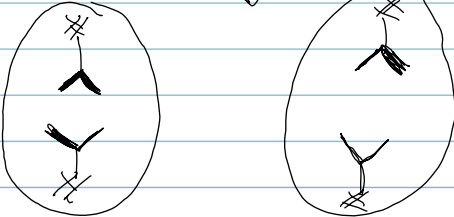




Prophase II

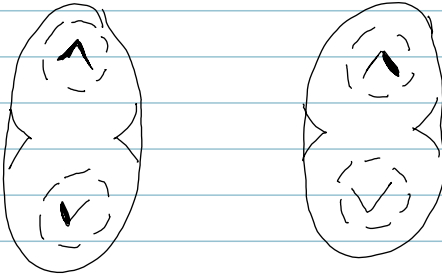


Metaphase II

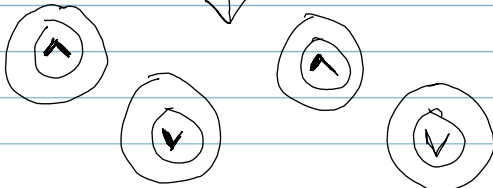


Anaphase II

Pulls sister chromatids apart



Telophase II



Cytokinesis II

- Gametes -
4 haploid cells
all genetically different