Answer these questions:

Define the term homologous chromosomes and identify the chromatids.

Chromosomes w/ same size, shape, genetic content

Differentiate between haploid and diploid cells.

half

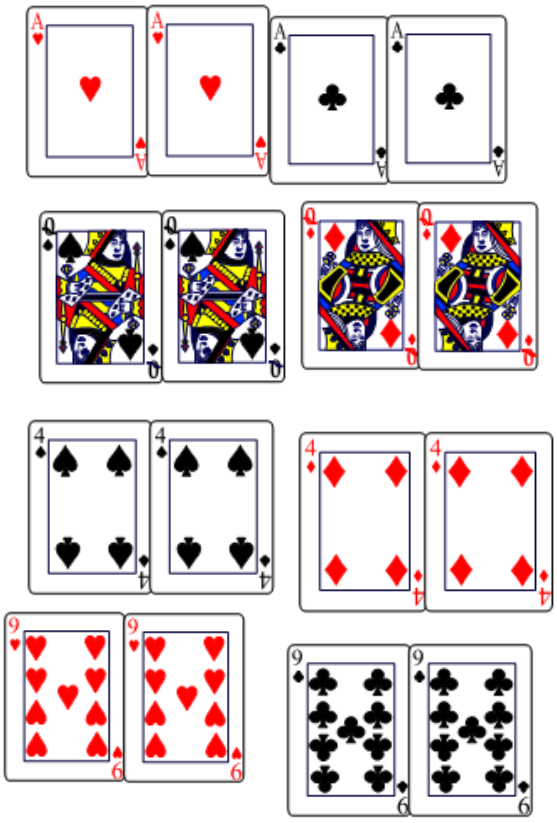
2x

Summarize the steps of mitosis.

Nov 27 - 1:47 PM

Choose one of the following organisms and calculate the chromosome number if cells were always haploid after 5 generations.

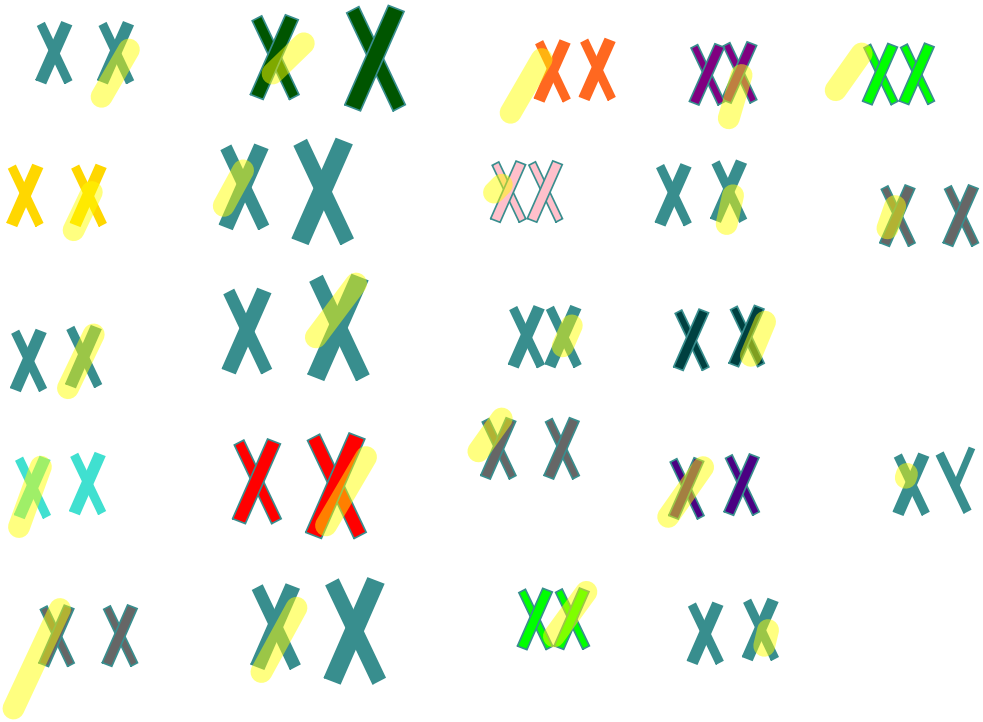
Mosquito	6	- 12 - 24 - 48
Corn	20	
Human	46	- 92 - 184 - 368
Horse	64	



Meiosis- a form of cell division that halves the number of chromosomes when forming specialized reproductive cells such as gametes.

Before meiosis like in mitosis the DNA replicates during interphase

Independent assortment- random distribution of homologous chromosomes during meiosis

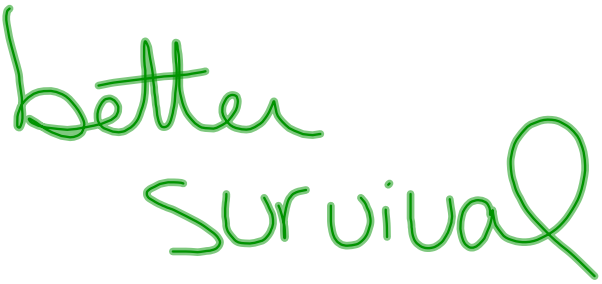


This means that 23 pairs of Chromosomes can be combined in 2^{23} combinations

2 000 000 000 000 000 000 000 000

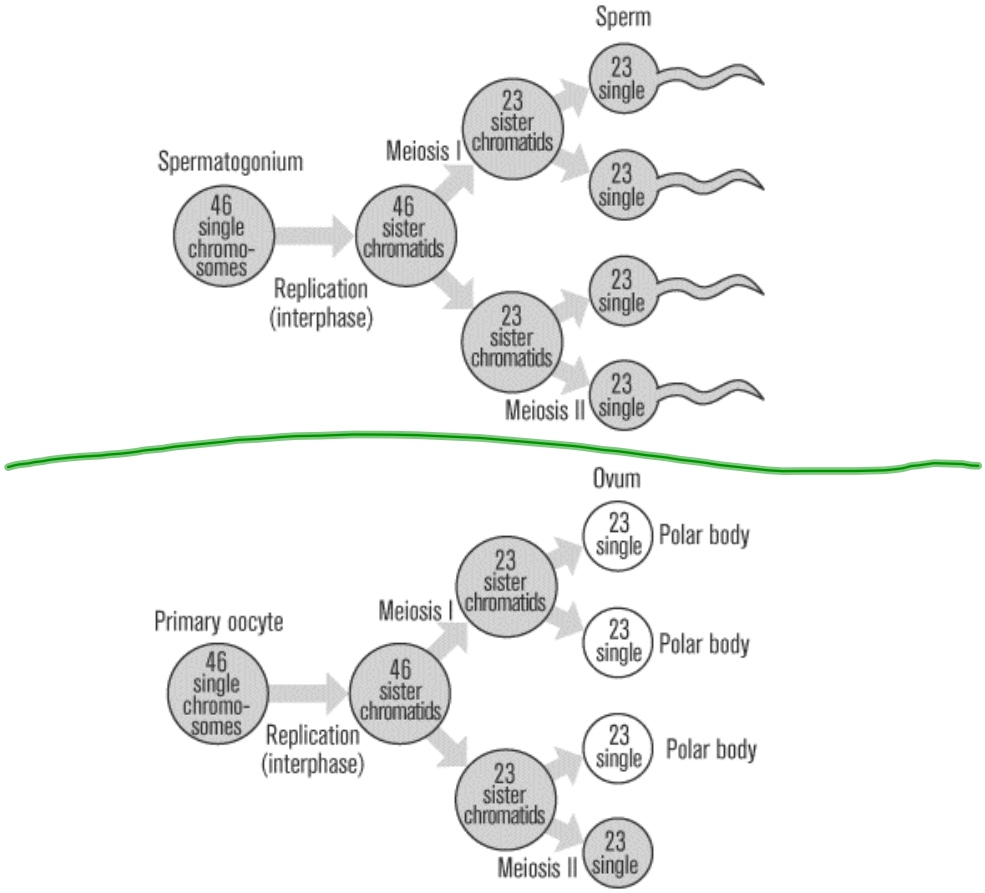
Crossing-over

Why is variation important?

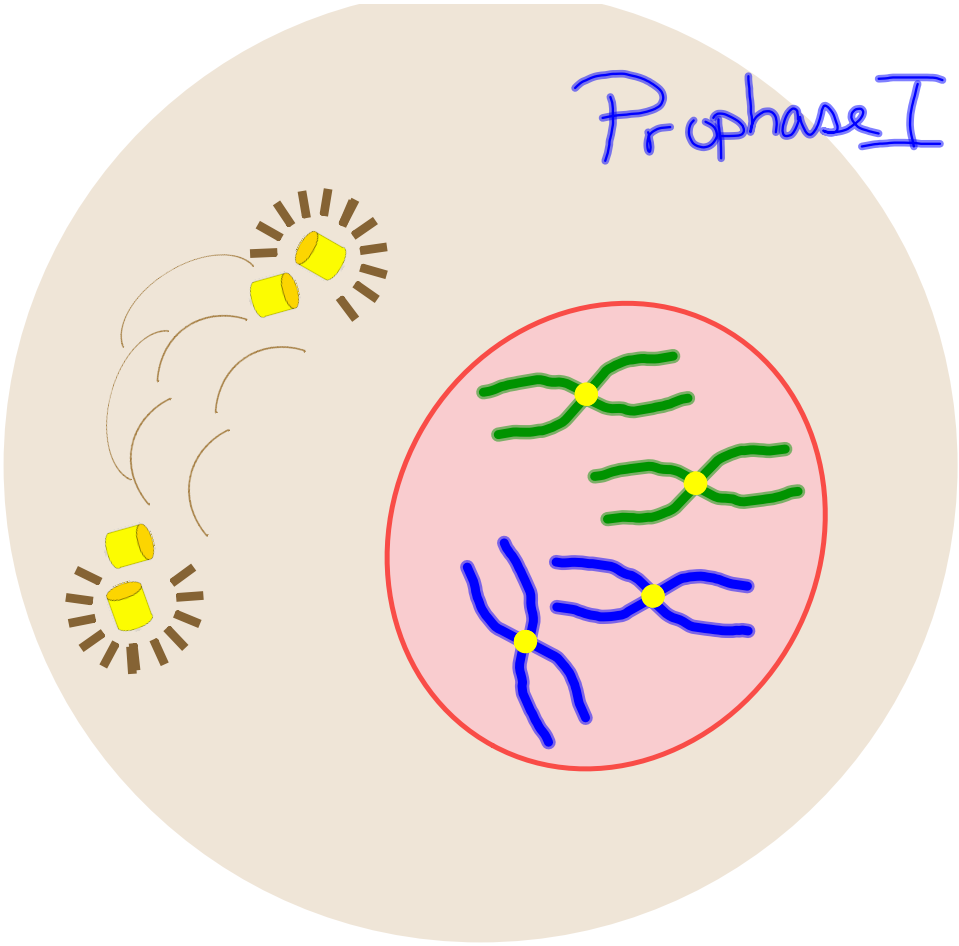


Gametogenesis-

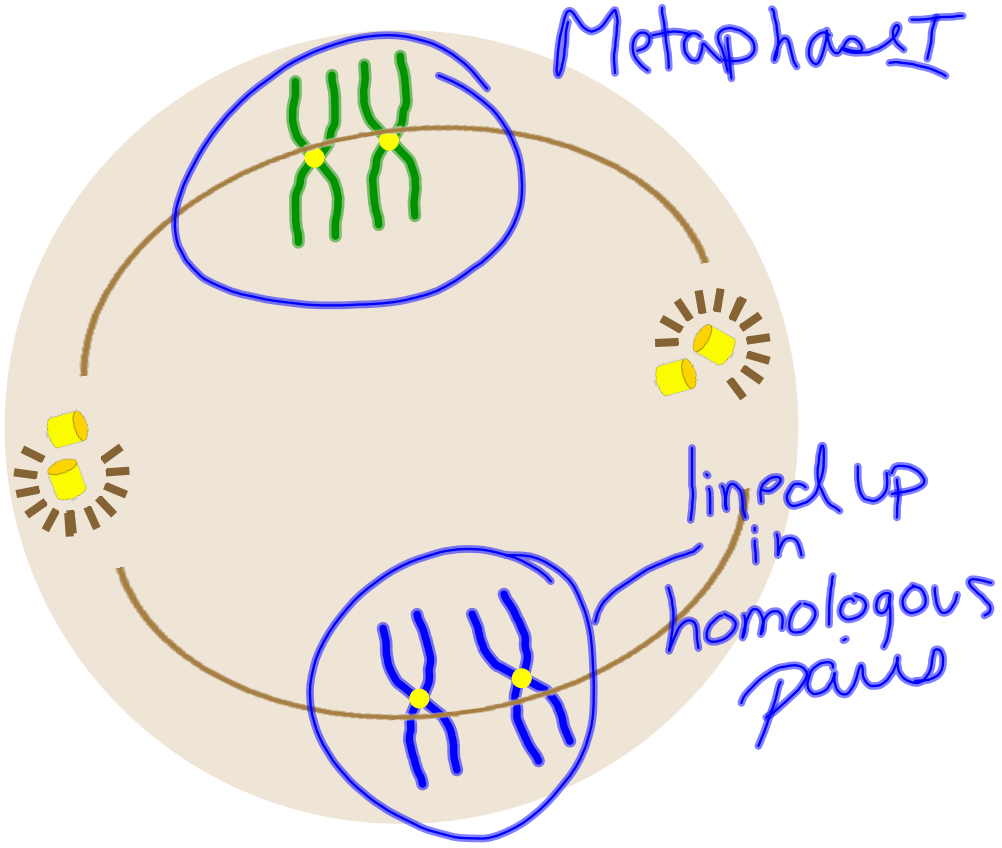
formation of gametes (sex cells)



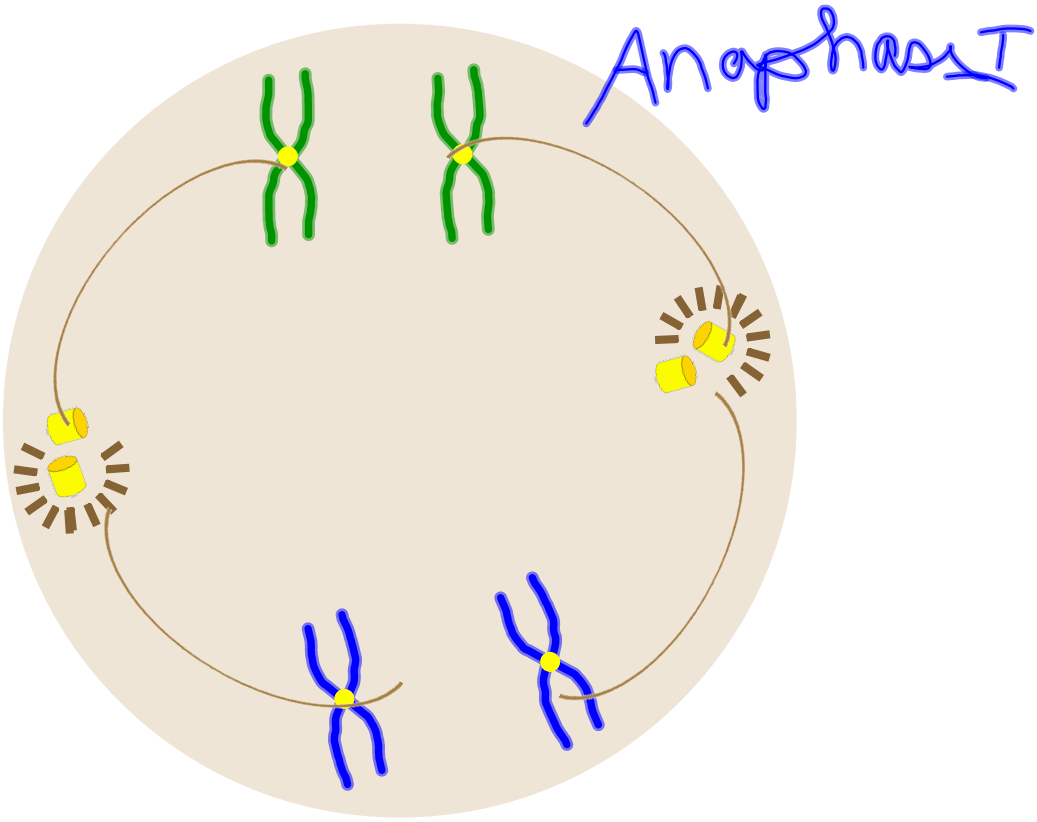
http://www.sparknotes.com/testprep/books/sat2/biology/chapter7section2.rhtml



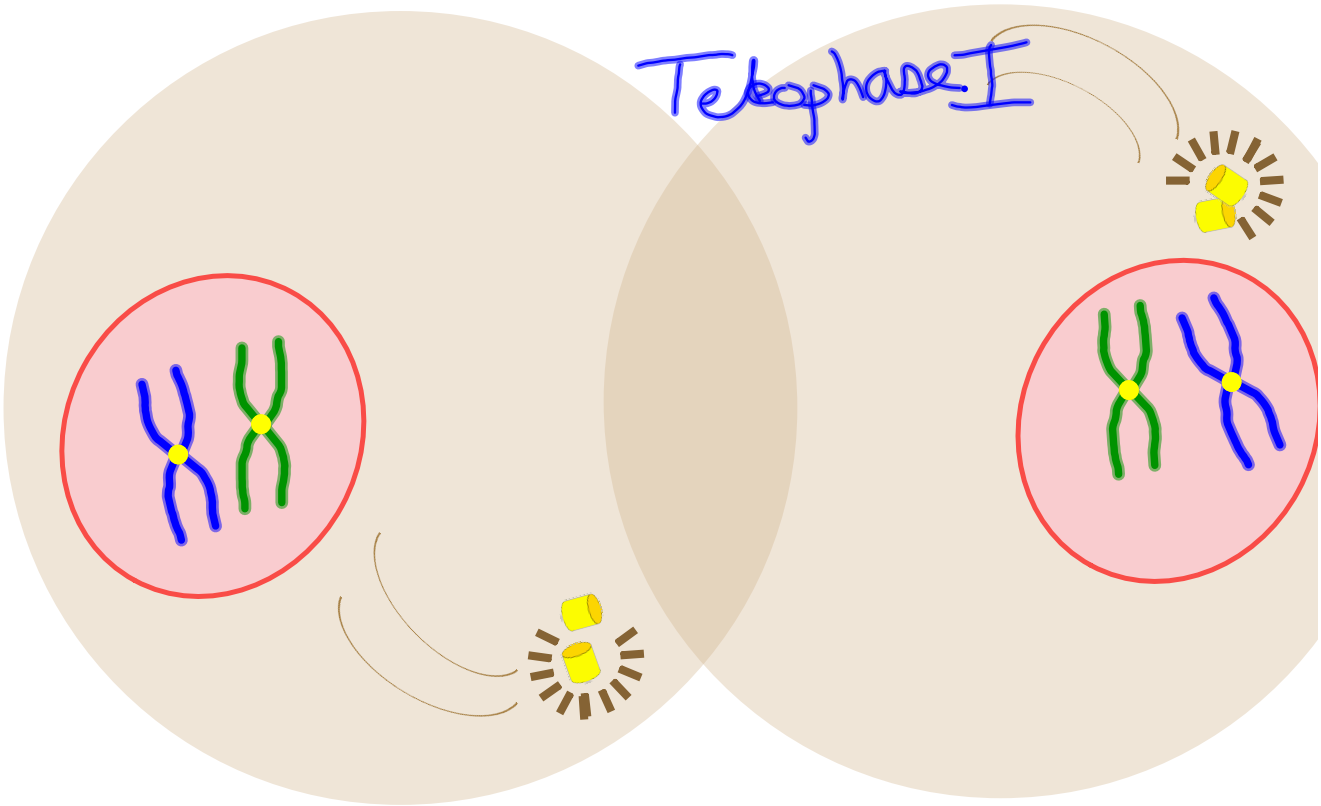
Prophase I



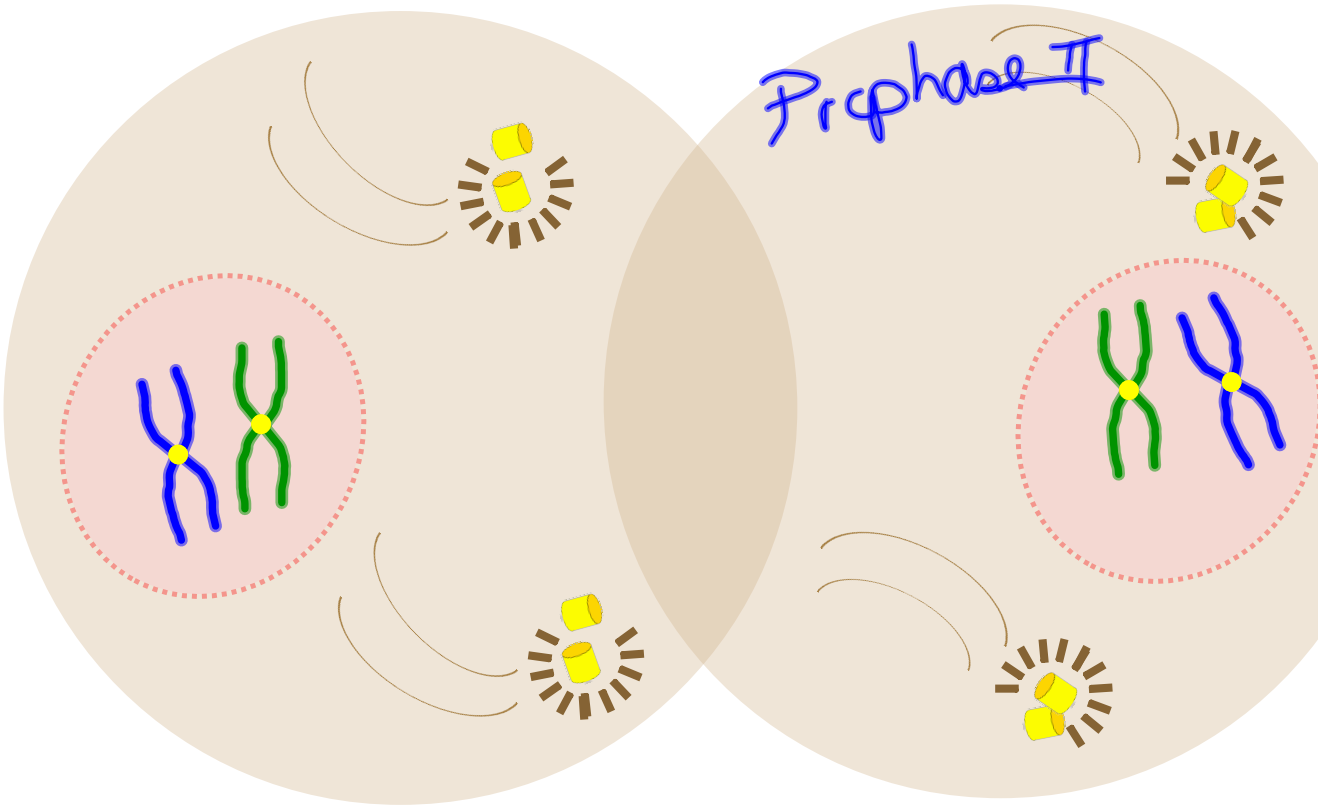
Metaphase I



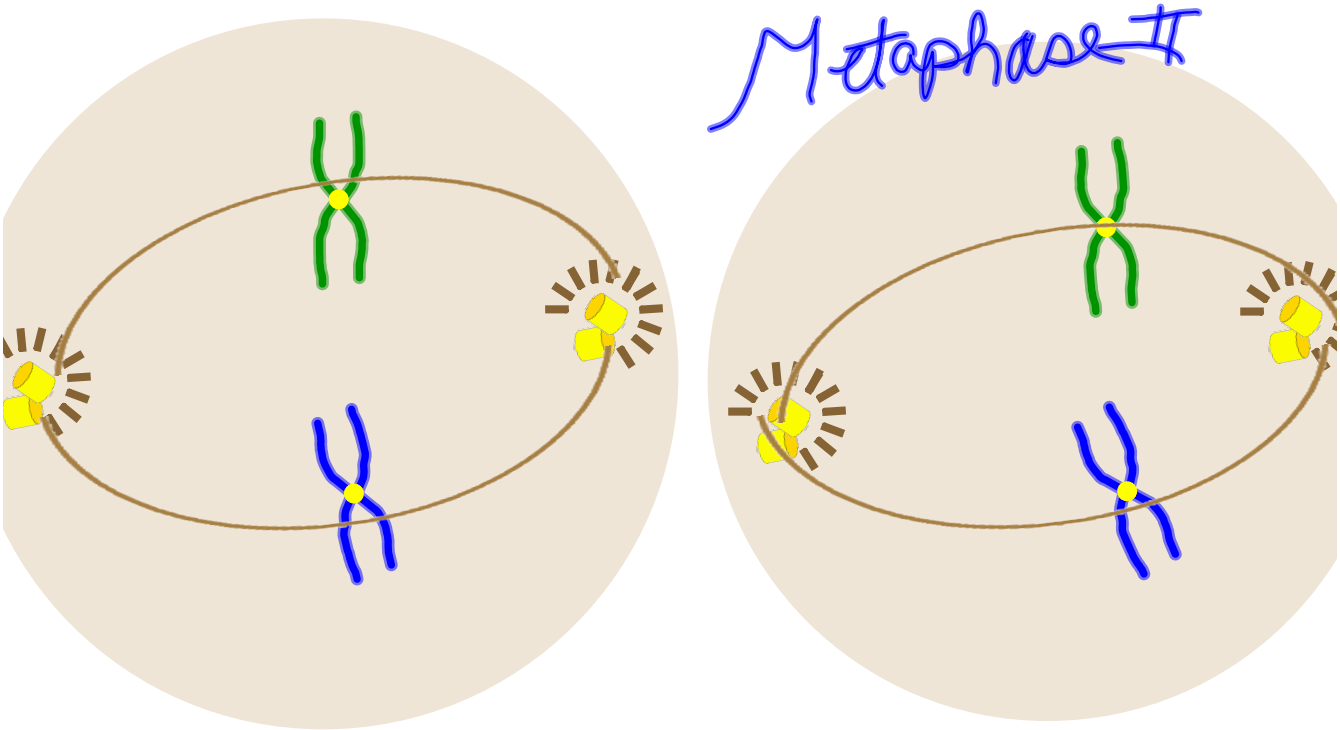
Anaphase I



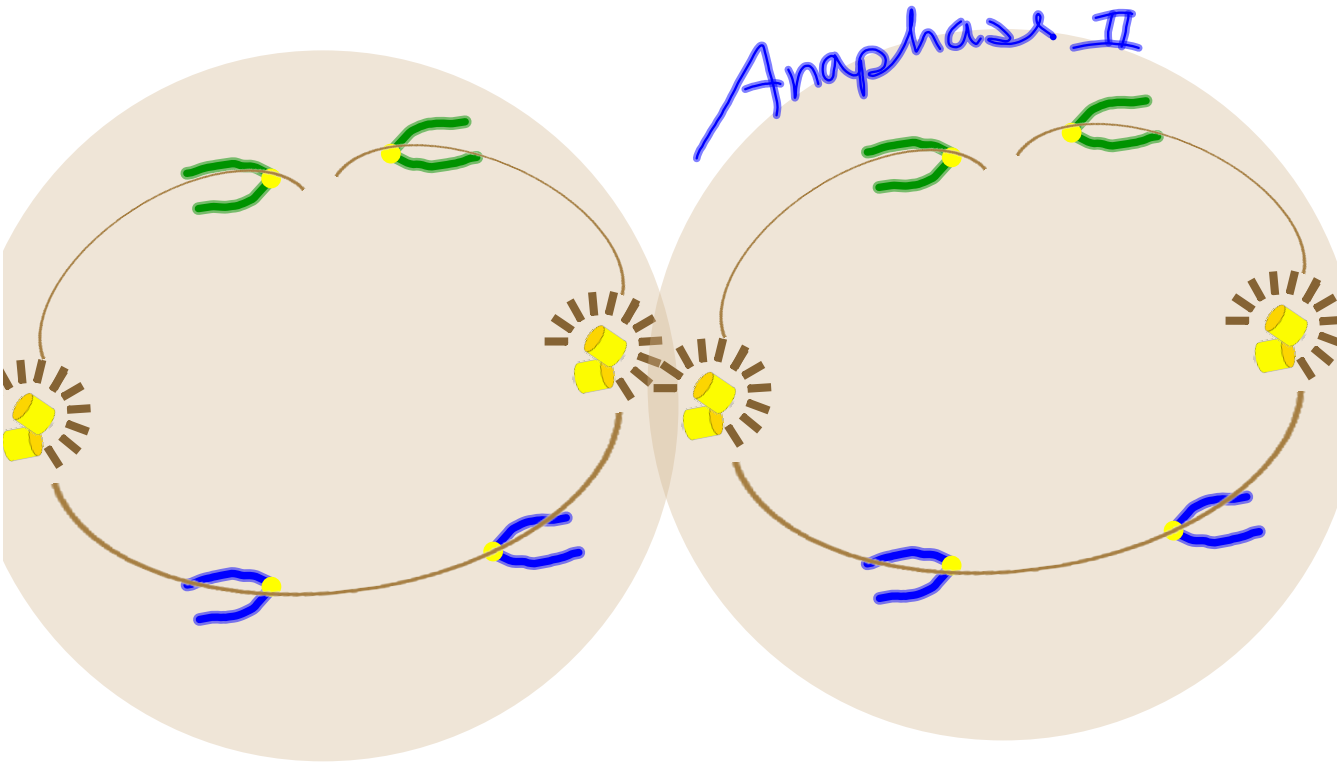
Telophase I



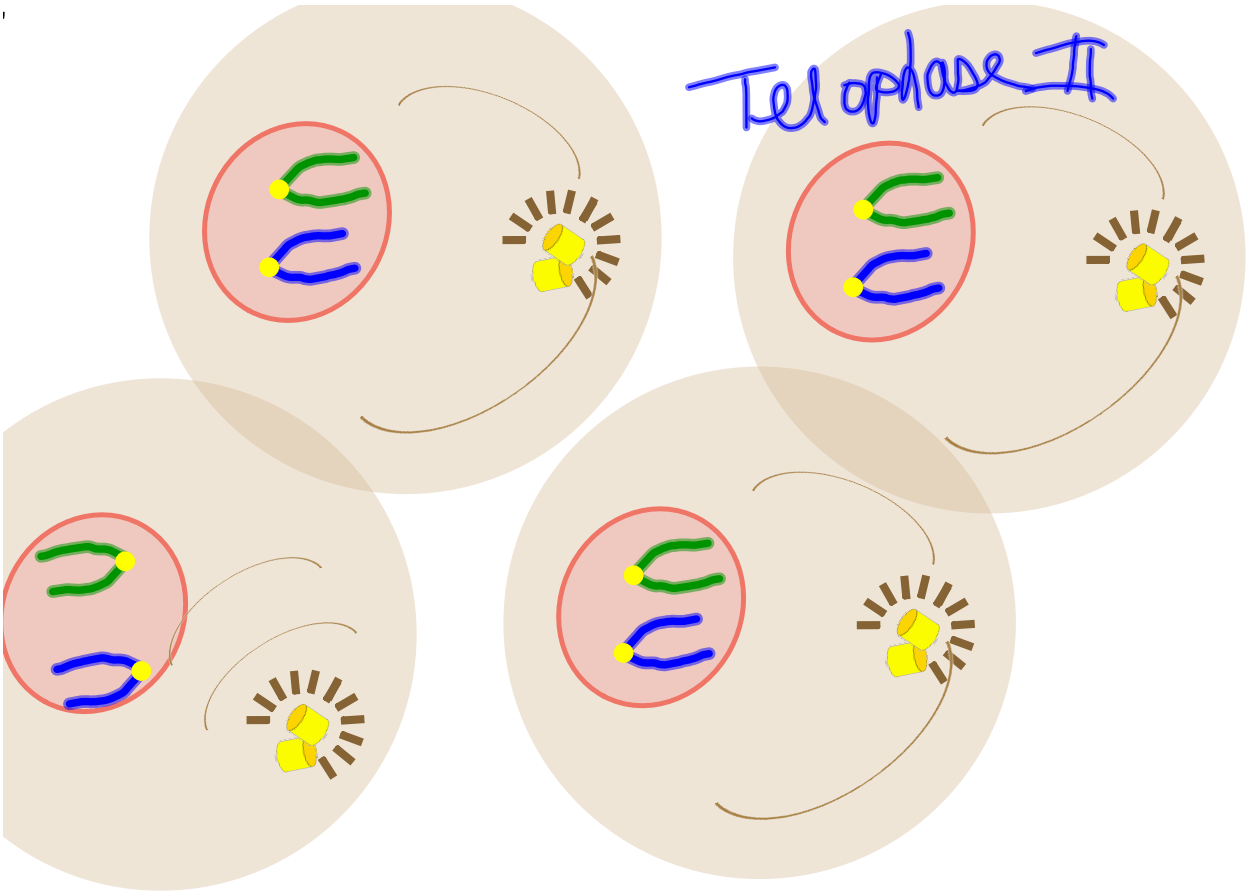
Prophase II



Metaphase II



Anaphase II



Telophase II