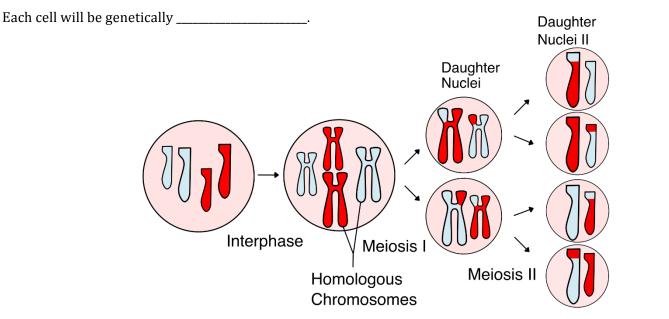
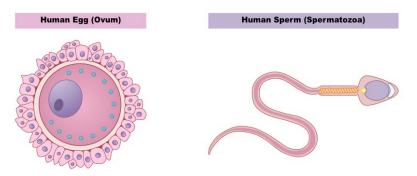
Meiosis

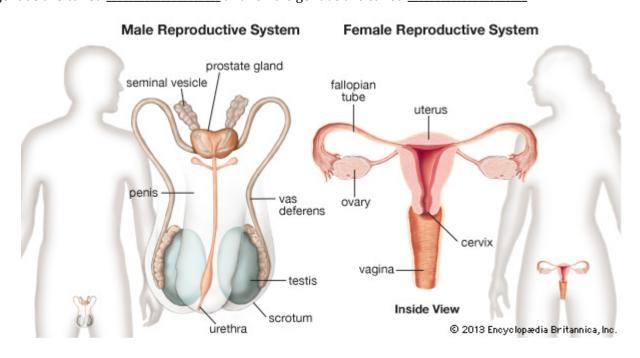
Meiosis is the division of cells that results in ____ cells with _____ of the chromosomes of the parent cell.



Male gametes are called ______ while female gametes are called _____

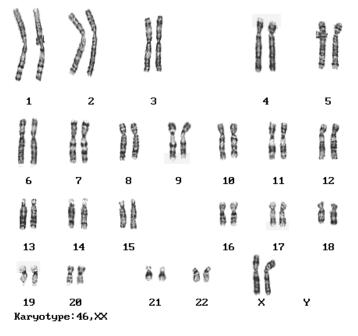


Male gonads are called _____ and female gonads are called _____

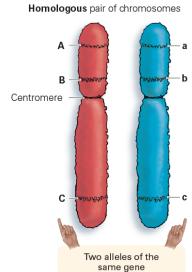


and will form		Spermato	genesis
genetically different, with a	Males can		
produce sperm per minute.		Meiosis I	Spermatogonium, 2n 1° Spermatocyte, 2n 2° Spermatocyte, 2n Spermatid, n
		Lineage ©	Sperm cell, n Moises Dominguez
Oogenesis starts with a diploid cell called a		Oogen	esis
and will form	haploid	Oogenium ())	esis ()
	-	Oogonium Primary oocyte	2n 2n 2n
egg and polar bodies. The egg has all of the	-	Oogonium	2n Primary polar body
egg and polar bodies. The egg has all of the needed to form a	-	Oogonium Primary oocyte Meiosis oocyte	2n Primary polar body
egg and polar bodies. The egg has all of the needed to form a	-	Oogonium Primary oocyte Meiosis Meiosis	2n 2n Primary polar body Secondary polar body

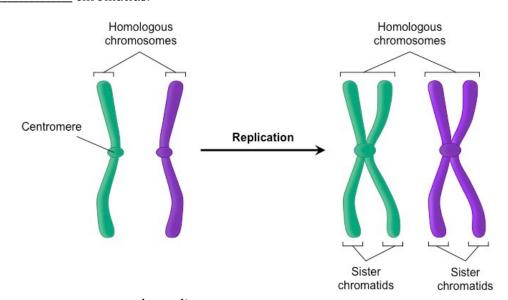
_____ number while _____ is the diploid number.



A homologous chromosome is the same number with the same genes in the same place. These are _____ identical.



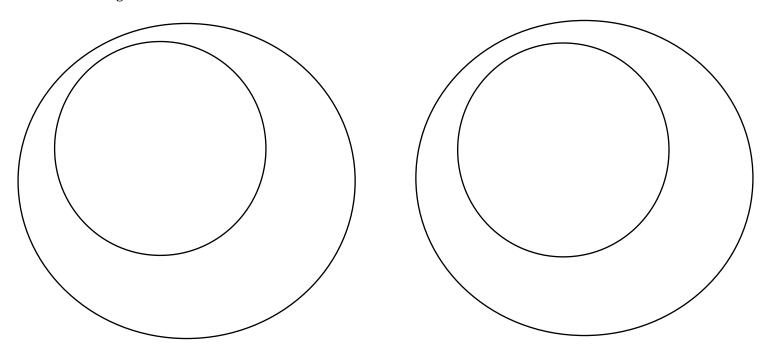
When the homologous chromosomes replicate, each replicated pair will be identical and are called _____ chromatids.



In meiosis the chromosomes ______ once but split ______.

4 Single Stranded Chromosomes

4 Double Stranded Chromosomes



Meiosis has two stages, meiosis 1 and meiosis 2. In meiosis 1, chromosomes are replicated and crossing over occurs. The homologous chromosomes will split and 2 cells will form. Each cell will have half the chromosome number but equal amounts of DNA as the original cell. In meiosis 2, no replication occurs but the cells will divide. The resulting cells will have half of the chromosomes and half of the DNA as the original cell.

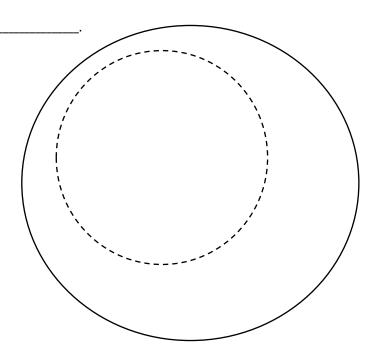
Prophase 1

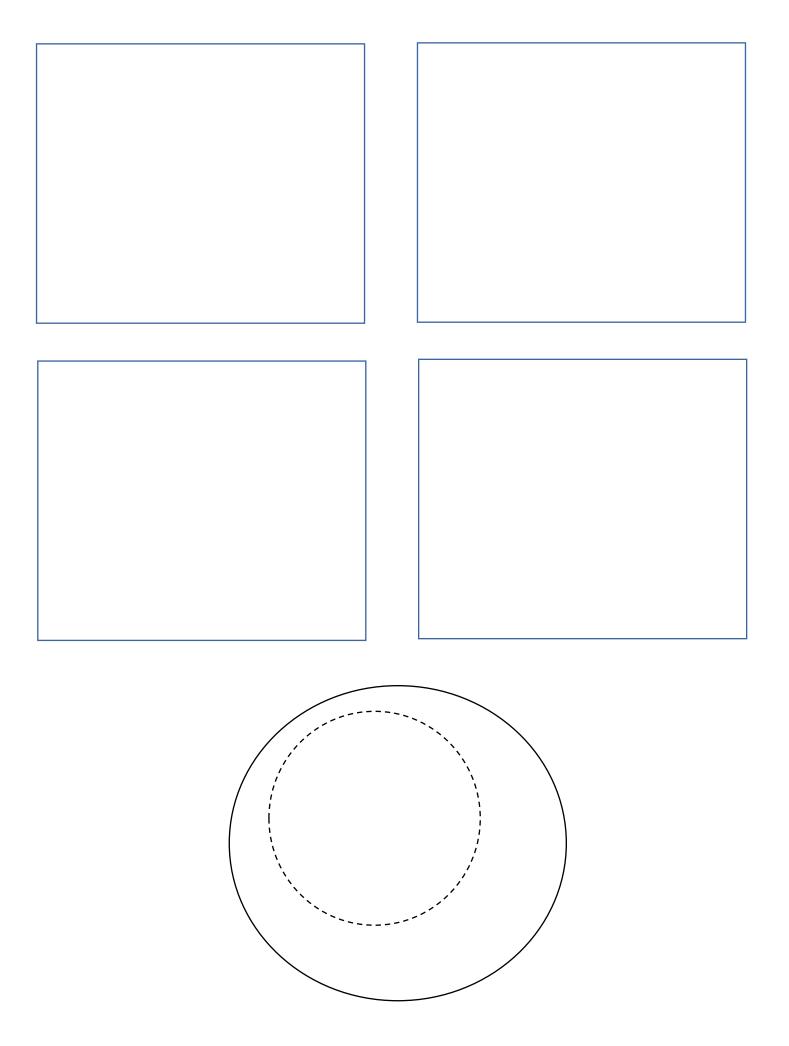
-Nuclear envelope a	and nucleolus
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-Centrioles move towards the ______ and _____form

-Condensed chromosomes interact. _____ pairs (_____) swap DNA at the

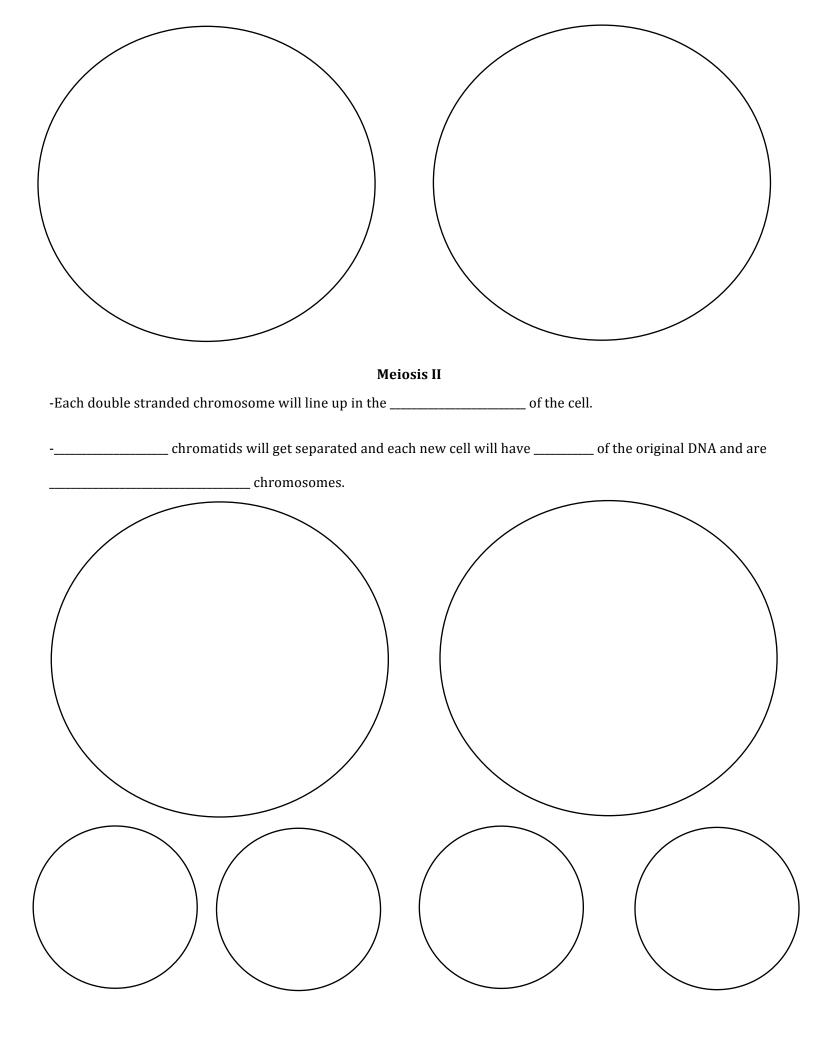
_____. This is called _____.





Metaphase I

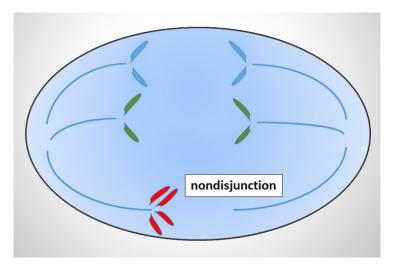
-Homologous chromosome line up
-Spindle fibers attach to the
Anaphase I
chromosomes are separated
Telophase I/Cytokinesis I
-Each new cell will have of the chromosomes but amounts of DNA. Each of these
chromosomes are



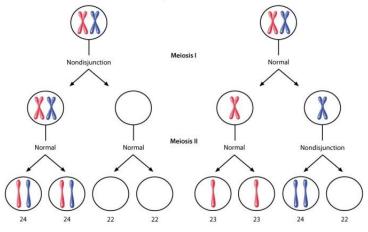
Errors in Meiosis

If sister chromatids do not separate correctly they will either have too many or not enough chromosomes. This is

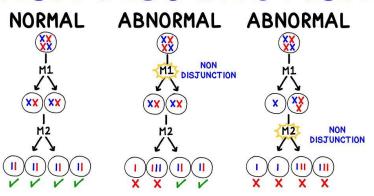
called _____



Nondisjunction in meiosis



NON-DISJUNCTION



Number of chromosomes in gametes

