**Meiosis Guided Notes:** 

**Meiosis:**

* Meiosis is form of cell division by which
* Meiosis is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reproduction
* \_\_\_\_\_\_ divisions (meiosis I and Meiosis II)

Meiosis:

* Male \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Sperm
* Female \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Egg or ova

**Spermatogenesis:**



**Oogenesis:**



**Haploid vs. Diploid Cells**

Haploid -

Diploid -

**Meiosis I (4 phases)**

* Cell Division that … 
* Four phases:



**Prophase I:**

* Same as mitosis prophase but \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pair up
* Tetrad is \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (two sets of sister chromatids)

Crossing over:



Sex Chromosomes:

* Female \_\_ \_\_
* Male \_\_ \_\_

**Metaphase I**

**Anaphase I**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ separate

**Telophase I**



**Meiosis II:**



Question;

* A cell containing 20 chromosomes (diploid) at the beginning of meiosis would, at its completion, produce cells containing how many chromosomes?

Goal of Meiosis is to…