Mitosis and Meiosis Review

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|  | **Mitosis** | **Meiosis** |
| Purpose |  |  |
| Which cells do this? (Somatic cells? Germ cells? Both?) |  |  |
| Number of divisions |  |  |
| Number of cells produced |  |  |
| Chromosome number of daughter cells (haploid or diploid? 2n or 1n?) |  |  |
| Type of cells produced |  |  |
| Pairing of homologous chromosomes? (yes or no)If yes, when? |  |  |
| Genetic variation increased? (yes or no) If yes, HOW? |  |  |



* Meiosis II
* Metaphase I
* Metaphase II
* Prophase I
* Prophase II
* Anaphase I and telophase I
* Tetrads
* 4 chromatids
* 2 homologous chromosomes
* 2 haploid cells
* 4 haploid cells
* Non-sister chromatids
* Independent Assortment
* Crossing over occurs
* Chromosomes are still made of sister chromatids
* Sister chromatids are attached to opposite poles
* Cytokinesis takes place
* Sister chromatids separate
* Homologous chromosomes separate
* Spindle fibers attach to kinetochores