Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Meiosis Practice

In the chart below, fill in the chromosome number for humans and the process for each cell type.

|  |  |  |
| --- | --- | --- |
| Cell Type | Number of Chromosomes in Cell | Process Used to Make Cell Type |
| Stomach |  |  |
| Liver |  |  |
| Sperm |  |  |
| Heart |  |  |
| Egg |  |  |

Complete the following chart by checking the process of cell division in which each step occurs.

|  |  |  |
| --- | --- | --- |
|  | Mitosis | Meiosis |
| Two new cells are formed from each original cell |  |  |
| Four new cells are formed from each original cell |  |  |
| Replication of chromosomes occurs |  |  |
| Doubled chromosomes pair up to form tetrads |  |  |
| Cells with a reduced chromosome number are formed |  |  |
| Cells with the same number of chromosomes are formed |  |  |
| Results in egg or sperm cells |  |  |
| Results in body cells (somatic cells) |  |  |
| Each original cell divides only once |  |  |
| Each original cell divides twice |  |  |
| Chromosomes line up along the center of the cell |  |  |
| Tetrads are not formed |  |  |
| Genetic material of new cells is identical to original cell |  |  |
| Genetic material of new cells is different from original cell |  |  |
| Essential for the continuity of the species |  |  |