

**Mitosis/Meiosis Review**

Name: \_\_\_\_\_

1. How many pairs of chromosomes are in each human somatic cell?
2. How many pairs of chromosomes are in each egg or sperm?
3. How many chromosomes are in each daughter cell after meiosis?
4. How many chromosomes are in each daughter cell after mitosis?
5. Also known as reduction division.
6. Occurs right after fertilization of an egg.
7. Daughter cells are identical to the parent cell.
8. Goes through 2 phases.
9. Complete the table below.

| Cell Type | # Chromosomes in each cell | Process used to make cell (mitosis/meiosis) |
|-----------|----------------------------|---|
| Stomach   |                            |   |
| Liver     |                            |   |
| Sperm     |                            |   |
| Heart     |                            |   |
| Egg       |                            |   |

10. 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       |         |         |
| Four new cells are formed from each original      |         |         |
| Replication of chromosomes occurs                 |         |         |
| Cells with a reduced chromosome number are formed |         |         |
| Results in forming egg or sperm cells             |         |         |
| Results in forming somatic cells                  |         |         |

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