# Meiosis Study Guide

1. Define somatic cells. What is their chromosome number? How are they made?
2. Define gametes. What are the male and female gametes called? What is their chromosome number? How are they made?
3. Complete the chart to compare Mitosis and Meiosis:

|  |  |  |
| --- | --- | --- |
|  | Mitosis | Meiosis |
| How many divisions |  |  |
| Type of cells created |  |  |
| Number of cells at the end |  |  |
| Genetic identity of daughter cells |  |  |
| What type of reproduction uses this type of division (asexual/sexual)? |  |  |
| How is Anaphase different? |  |  |

1. Define diploid and haploid number. Give an example of a cell where you would find one of each.
2. If an animal has a diploid number of 24, how many chromosomes does it have?
3. If an animal has 24 chromosomes in a skin cell, and the skin cell undergoes mitosis, how many chromosomes does each daughter cell have?
4. How many chromosomes does each daughter cell have after meiosis in the same animal?
5. When does a cell enter interphase during the process of meiosis?
6. Define: Chromatid, Homologous Pair, Tetrad.
7. When does a tetrad form in meiosis?
8. Draw a tetrad and label ALL the parts
9. What is crossing over? When does this occur in Meiosis?