

Meiosis

- The specialised kind of cell division that reduces the chromosome number by half results in the production of haploid daughter cells called **meiosis**.
- It is responsible for formation of haploid gametes, which during sexual reproduction form diploid zygote by fusion.
- Meiosis involves two sequential cycles of nuclear and cell division called **meiosis I** and **meiosis II** but only a single cycle of DNA replication.
- Interphase of meiosis is similar to interphase of mitosis.

Meiosis I

Prophase I

- Prophase of the meiosis I division is typically longer and more complex than prophase of mitosis.
- It has been further subdivided into the following five phases based on chromosomal behavior.

