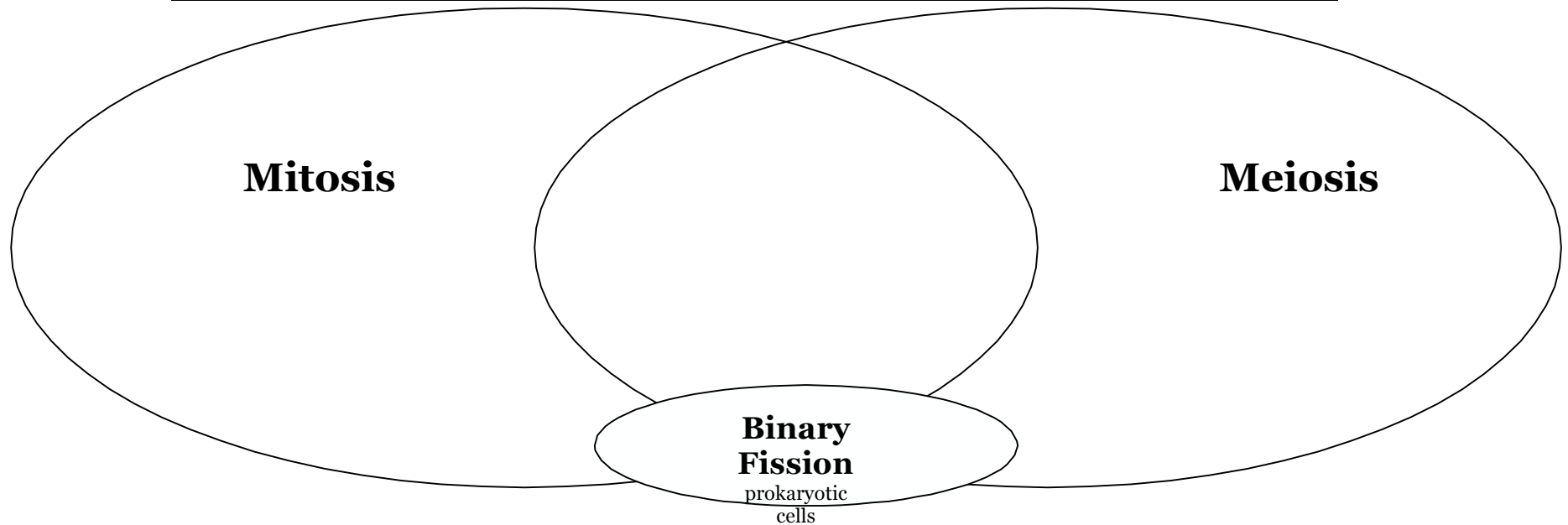


1. Mitosis vs. Meiosis-Venn Diagram: Place each of the items listed below in the appropriate portion of the diagram.

increases genetic variation	asexual reproduction	used in tissue repair
1 division	gametes	4 cells produced
DNA replication occurs in interphase	2 cells produced	required prior to sexual fertilization
prokaryotic cells	eukaryotic cells	produces genetically identical cells
somatic (body) cells	2 divisions	tissue growth



2. Mitosis v. Meiosis-Explaining Differences: Explain what happens in each of the following processes in Meiosis that is **different** from Mitosis and **why** the difference is important.

Prophase I (in Meiosis I):

Metaphase I and Anaphase I (in Meiosis I):

3. Mitosis and Meiosis-Drawn Definitions: On notecards, a) define each of the words below using only pictures, b) Label each of your drawings with the appropriate vocabulary word, and c) note whether the word relates to Mitosis, Meiosis, or both.

**Chromosome, Chromatid, Centromere, DNA, Homologous Chromosome, Interphase, Prophase, Anaphase, Metaphase, Telophase, Diploid, Haploid, Gamete, Somatic Cell**