

Name \_\_\_\_\_

## Mitosis vs. Meiosis: A Cell Division Showdown

### Short Answer Key

1. Mitosis produces two identical daughter cells, while meiosis produces four genetically unique haploid cells.
2. Meiosis creates specialized cells (gametes) for sexual reproduction, ensuring genetic diversity in offspring.
3. During metaphase, chromosomes line up along the cell's equator.
4. Cytokinesis in mitosis results in two identical daughter cells, while cytokinesis in meiosis results in four unique haploid cells.
5. Mitosis is essential for repairing damaged or old cells, allowing an organism to maintain its health and function.

