

Name \_\_\_\_\_

## Mitosis vs. Meiosis: A Cell Division Showdown

### Multiple Choice Questions

1. What is the primary purpose of mitosis?
  - a) Creating genetically unique cells
  - b) Repairing damaged DNA
  - c) Producing identical daughter cells
  - d) Shuffling genetic material
  
2. How does meiosis differ from mitosis in terms of the number of divisions?
  - a) Mitosis has one division, and meiosis has two.
  - b) Mitosis has two divisions, and meiosis has one.
  - c) Both mitosis and meiosis have two divisions.
  - d) Neither mitosis nor meiosis involves divisions.
  
3. Which of the following accurately describes meiosis?
  - a) It creates genetically identical cells.
  - b) It reduces the chromosome number by half.
  - c) It is primarily used for tissue repair.
  - d) It maintains the same chromosome number as the parent cell.
  
4. During which stage of mitosis do chromosomes line up along the cell's equator?
  - a) Interphase
  - b) Prophase
  - c) Metaphase
  - d) Anaphase
  
5. Why is mitosis essential for an organism's growth and repair?
  - a) It produces unique cells for reproduction.
  - b) It creates genetically diverse offspring.
  - c) It generates identical daughter cells for tissue maintenance.
  - d) It reduces the chromosome number in half.

