

Name _____

Mitosis: The Marvelous Mechanism for Growth and Tissue Repair

Short Answer Key

1. Interphase prepares the cell for mitosis by growing, replicating DNA, and checking for errors in DNA.
2. During prophase, chromosomes condense, become visible, and the nuclear envelope begins to break down.
3. Cytokinesis completes the cell cycle by dividing the cell into two separate daughter cells.
4. Alignment of chromosomes in metaphase ensures even distribution of genetic material to the daughter cells.
5. An example of tissue repair involving mitosis is the rapid division of skin cells to heal a wound.

