

# Quiz: Mitosis vs. Meiosis

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## Part 1: Matching

**Directions:** Match the term in Column A with the correct description in Column B. Write the letter on the line provided.

### Column A

- \_\_\_\_\_ 1. Mitosis
- \_\_\_\_\_ 2. Meiosis
- \_\_\_\_\_ 3. Gametes
- \_\_\_\_\_ 4. Diploid Cell
- \_\_\_\_\_ 5. Haploid Cell
- \_\_\_\_\_ 6. Crossing Over
- \_\_\_\_\_ 7. Body Cells
- \_\_\_\_\_ 8. Four Daughter Cells
- \_\_\_\_\_ 9. Two Daughter Cells
- \_\_\_\_\_ 10. Genetic Variation

### Column B

- A. Cells with one set of chromosomes
  - B. Exchange of genetic material between homologous chromosomes
  - C. Produces sex cells
  - D. Cells with 2 sets of chromosomes
  - E. Produced through meiosis
  - F. Produces 4 daughter cells
  - G. Increases differences among offspring
  - H. Produces 2 identical daughter cells
  - I. Ordinary cells used for growth and repair
  - J. Cell division used for growth and repair
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## Part 2: Multiple Choice

**11. Which process produces genetically identical daughter cells?**

- A. Meiosis
- B. Fertilization
- C. Mitosis
- D. Mutation

**12. How many daughter cells result from meiosis?**

- A. 2
- B. 4
- C. 6
- D. 8

**13. What is the main purpose of meiosis?**

- A. Growth and repair
- B. Replace damaged cells
- C. Produce gametes
- D. Increase cell size

**14. Human body cells contain how many chromosomes?**

- A. 23
- B. 46
- C. 92
- D. 12

- 15. Human gametes contain how many chromosomes?**
- A. 46
  - B. 92
  - C. 23
  - D. 12
- 16. Which process includes crossing over?**
- A. Mitosis
  - B. Meiosis
  - C. Cytokinesis
  - D. Interphase
- 17. Which type of cell division creates genetic variation?**
- A. Mitosis
  - B. Binary Fission
  - C. Meiosis
  - D. Cytokinesis
- 18. Mitosis produces cells that are \_\_\_\_\_ to the parent cell.**
- A. Different
  - B. Smaller
  - C. Identical
  - D. Haploid
- 19. Which of the following is NOT a characteristic of meiosis?**
- A. Produces gametes
  - B. Creates genetic variation
  - C. Produces four cells
  - D. Produces identical daughter cells
- 20. Which process is responsible for growth, development, and tissue repair?**
- A. Meiosis
  - B. Mitosis
  - C. Fertilization
  - D. Mutation