

Name _____

Answer Key: Introduction to Cell Division

1. Cell division is the process by which a single cell divides into two or more cells and is important for growth, repair, and reproduction in biology.

2. Mitosis is the process by which a single cell divides into two identical daughter cells. Its main purpose is tissue growth, repair, and maintenance in multicellular organisms.

3. Meiosis is a specialized type of cell division that occurs in reproductive cells (sperm and egg cells). It ensures genetic diversity in offspring.

4. Meiosis reduces the chromosome number by half to ensure that when the sperm and egg cells combine during fertilization, the resulting offspring have the correct chromosome number (diploid).

5. False