

**Cell Division and Reproduction Review Worksheet**

Name \_\_\_\_\_

1. Distinguish between sexual and asexual reproduction.
2. Distinguish among a chromosome, a DNA molecule, nucleus, and a gene.
3. What is the immediate end-product of mitosis?
  - a. How do these cells compare to the parent cell, and to each other?
4. What types of eukaryotic cells undergo mitosis?
5. What are similarities and differences between mitosis and binary fission?
6. What are the major events occurring in each of the following processes in the cell cycle?
  - a. Interphase
  - b. Mitosis
  - c. Cytokinesis
7. What are the major events occurring in each of the following phases of mitosis?
  - a. Prophase
  - b. Metaphase
  - c. Anaphase
  - d. Telophase
8. What is cytokinesis and how does it differ between plant and animal cells?
9. What are the roles of the following structures in mitosis?
  - a. centrioles
  - b. spindle fibers
  - c. centromere
  - d. kinetochore
10. What is the purpose of meiosis?
11. What types of cells undergo meiosis? In humans, where are these cells located?