

Worksheet 4 - Mitosis/Meiosis

1. Complete the following chart:

	Mitosis	Meiosis
# of cells produced		
Cells genetically identical to parent cell (yes/no)		
Type of cells produced (gametes or body cells)		
# of chromosomes per cell (haploid or diploid)		
# of sets of phases		

2. What are the male and female gametes called in humans?

3. How many chromosomes are in each human sex cell?

4. How many chromosomes are in each human body cell?

5. Suppose an organism has 4 chromosomes in its normal body cells. How many chromosomes would there be in each sex cell that organism produces?

Worksheet 5 - Mitosis/Meiosis

Directions: Write mitosis or meiosis next to the descriptions below.

1. Has two sets of phases.
2. Creates two daughter cells that contain an equal amount of chromosomes to each other and to the parent cell.
3. Used to form the gametes.
4. Creates cells that are identical to the parent cell.
5. Creates cells that are genetically different from the parent cell.
6. Has one set of phases.
7. Creates four cells.
8. Creates two cells.
9. Used to form the sperm cells in males.
10. Used to form the egg cells in females.

Directions: Write the correct word next to descriptions below.

Meiosis	46
Mitosis	Cell Division
Sperm	Chromosome
Egg	Gamete
Cytokinesis	Interphase

1. Male gamete
2. Process by which the cytoplasm divides, forming two distinct cells.
3. Female gamete
4. Process by which the nucleus of the cell is divided into two nuclei
5. Contains Gap 1, S, and Gap 2
6. Sex cell
7. Process by which the cell divides into two daughter cells
8. Process of cell division in which the number of chromosomes per cell is cut in half
9. Process used to make body cells
10. A pair of sister chromatids attached at the centromeres.

The number of chromosomes in each body cell of a human.