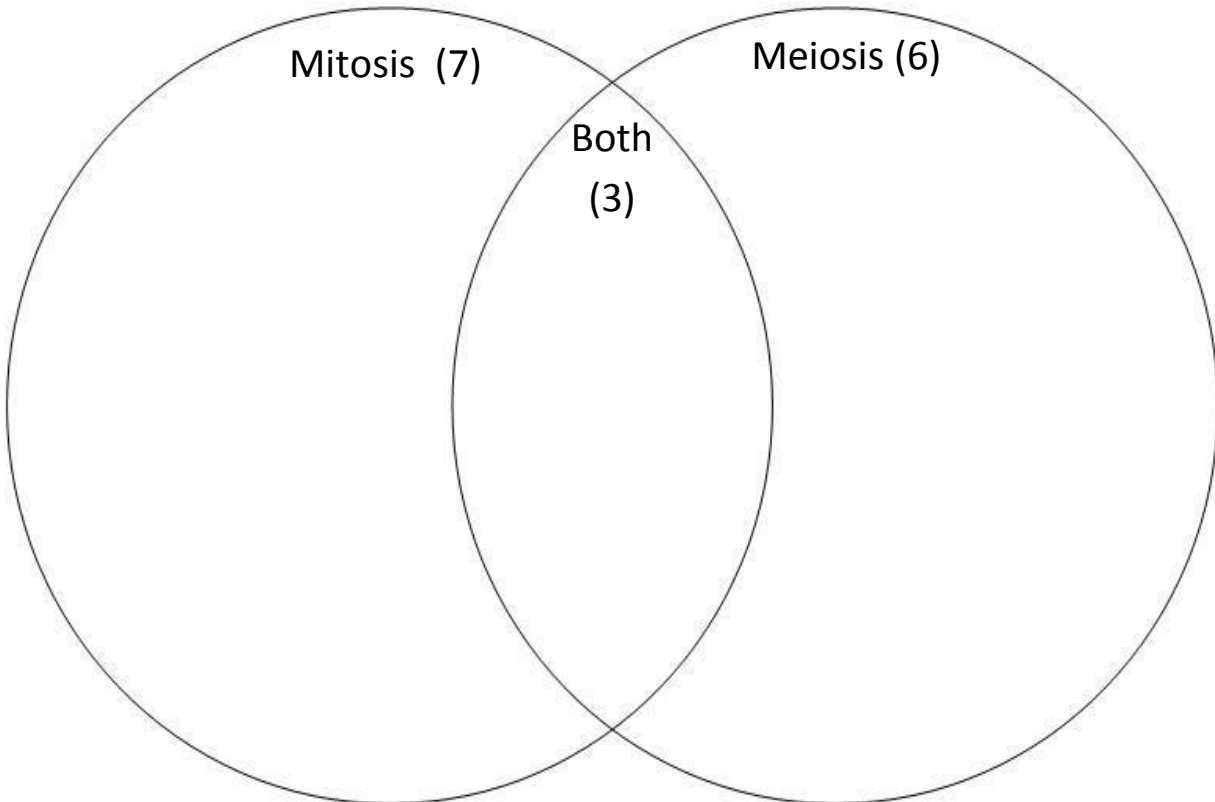


Comparing Mitosis and Meiosis

Characteristics	Mitosis	Meiosis
Number of Divisions		
Number of Daughter Cells		
Genetically Identical? or Genetically Unique?		
What type of cells are produced?		
Number of chromosomes at the end		
Types of Cells	(All cells of the body)	(Sex Cells)
When does it happen?		
Role		

Why does meiosis result in haploid cells instead of diploid cells?

Comparing Mitosis and Meiosis



Use the following statements to complete the diagram below

1. Includes cell division
2. The cell divides twice
3. The cell divides one time
4. Produces gametes
5. The cell ends up with 46 chromosomes
6. The cell replicates its DNA one time
7. Undergoes Interphase, Prophase, Metaphase, Anaphase, Telophase, and Cytokinesis
8. Produces somatic cells
9. Used so that the organism can grow, repair, and replace old cells
10. The cell ends up with 23 chromosomes
11. Allows for sexual reproduction
12. Asexual reproduction
13. Genetically identical cells are made
14. Genetically different cells are made
15. Diploid cells are produced
16. Haploid cells are produced