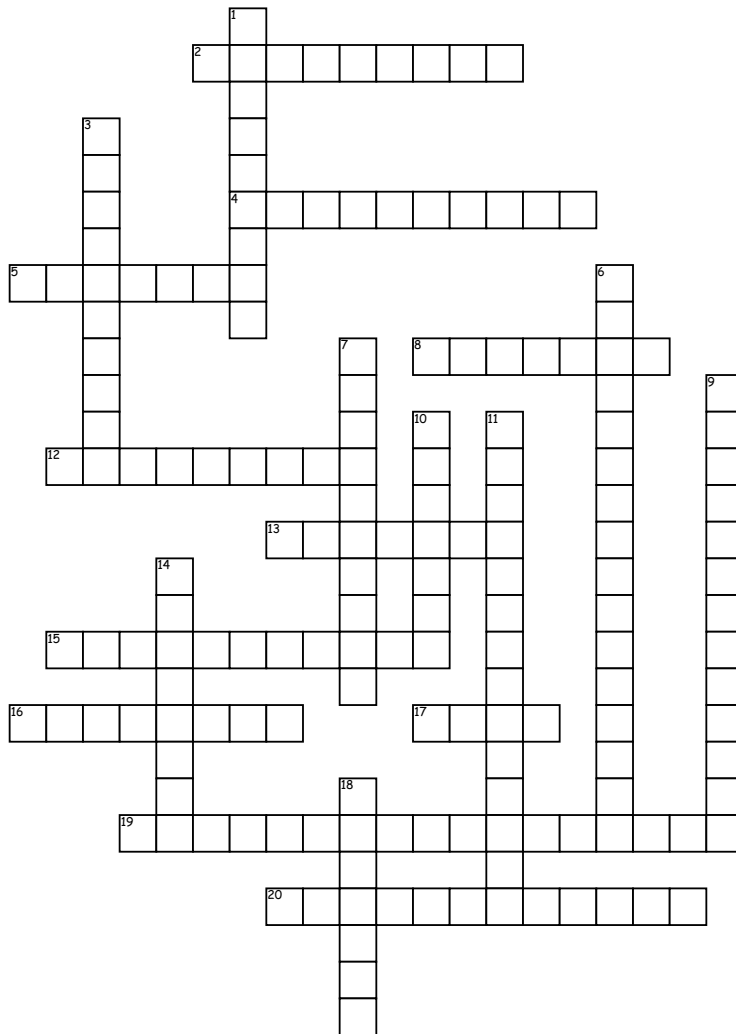


# Meiosis vs. Mitosis



**Across**

- 2. Series of events that cells go through as they grow and divide.
- 4. Chromosomes are approximately same size and contains same types of genes in same locations.
- 5. Sperm and egg cells.
- 8. A cell with 2x number of chromosomes.
- 12. The final stage of mitosis during which a nuclear membrane forms around each set of new chromosomes.
- 13. A cell with x number of chromosomes.
- 15. The division of the cytoplasm during the processes of cell division.
- 16. Phase of mitosis in which sister chromatids are pulled to opposite sides of the cell.

- 17. The DNA segments that control the production of proteins.

- 19. Where the chromosome number is reduced from diploid to haploid
- 20. A process during which chromosomal segments are exchanged.

**Down**

- 1. A phase of mitosis, during which the chromosomes line up across the center of the cell.
- 3. A structure in the nucleus that contains genetic material.
- 6. Moves and organizes the chromosomes before cell division.
- 7. Period of the cell cycle between cell divisions.

- 9. The process by which one haploid combines with another haploid.

- 10. A type of cell division that creates four cells
- 11. Where a cell can have too many or too few chromosomes in the separation.
- 14. A phase of mitosis in which chromosomes become visible and nuclear membrane disappears.
- 18. The stage of the cell cycle when during which the cell's nucleus and nuclear material divide.

**Word Bank**

Interphase	Diploid	Homologous	Nondisjunction	Metaphase
Crossing Over	Fertilization	Gene	Haploid	Chromosome
Prophase	Telophase	Cytokinesis	Anaphase	Cell Cycle
Reduction Division	Spindle Apparatus	Gametes	Mitosis	Meiosis