

Name: _____ Name: _____ Name: _____
Period: _____

Cell Worksheet Answer Key

Station 3: Visual History of the Cell

Use the reference materials to answer 1-5

1. Which three scientists were responsible for concluding the following parts of the Cell Theory: all living organisms are composed of cells; the cell is the smallest living thing; and all cells are derived from previous cells?
 - a. Robert Brown, Rachel Carson, Theodore Schwann
 - b. Robert Hooke, Matthias Jakob Schleiden, Louis Pasteur
 - c. Matthias Jakob Schleiden, Theodore Schwann, Rudolph Virchow**
 - d. Rudolph Virchow, Robert Hooke, Theodore Schwann
2. Which of the following is **NOT** a difference between Mitosis and Meiosis?
 - a. Mitosis creates 4 daughter cells where Meiosis creates 2 daughter cells**
 - b. Mitosis has 1 stage where Meiosis has 2 stages
 - c. Mitosis creates 2 daughter cells where Meiosis creates 4 daughter cells
 - d. Mitosis takes place in autosomal cells where Meiosis takes place in gametes
3. What are the stages of Mitosis in the correct order?
 - a. Telophase, Prophase, Metaphase, Anaphase
 - b. Prophase, Anaphase, Metaphase, Telophase
 - c. Anaphase, Telophase, Prophase, Metaphase
 - d. Prophase, Metaphase, Anaphase, Telophase,**
4. True or False: Both plant and animal cells go through DNA Replication via the process of Mitosis.
 - a. True**
 - b. False
5. Which of the following is **NOT** an organelle found in an animal cell?
 - a. Mitochondria
 - b. Chloroplasts**
 - c. Golgi Apparatus
 - d. Nucleolus
6. When does a cell replicate DNA?
 - a. Interphase**
 - b. Prophase
 - c. Metaphase
 - d. Anaphase
 - e. Telophase

7. How many steps are in Meiosis?

- a. 4
- b. 3
- c. 7**
- d. 8

8. True or False: During Anaphase, sister chromatids disjoin and move to opposite poles of the cell

- a. False**
- b. True

9. True or False: Plant cells do **NOT** undergo Meiosis

- a. False**
- b. True

10. Who coined the term "Cell"?

- a. Rudolph Virchow
- b. Robert Brown
- c. Anton Van Leeuwenhoek
- d. Robert Hooke**