Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SC.7.L.16.3**

**The Story of Our Start**

**Essential Question:** Compare asexual and sexual reproduction.

**Practice 1:** Which of the following describes asexual reproduction?

1. Passing an identical set of genes to the offspring
2. Sorting only the best genes to pass on to the offspring
3. Passing unique sets of genes to the offspring
4. Engineering new sets of genes for the offspring

**Practice 2:** Circle all the organisms that can reproduce asexually.

   

**Practice 3:** Place the letters that represent the terms in the correct category below.

1. Genetically identical offspring
2. Two Parents
3. One Parent
4. Genetically unique offspring
5. Produce offspring

|  |  |  |
| --- | --- | --- |
| **Asexual Reproduction** | **Asexual and Sexual Reproduction**  | **Sexual Reproduction** |
|  |  |  |

**Practice 4:** Which of the following best describe the process of mitosis?

1. Process that combines two cells to create two diploid daughter cells
2. Process creating two identical diploid daughter cells
3. Process of creating one similar haploid daughter cell

**Practice 5:** A parent has 10 chromosomes. How many chromosomes would each daughter cell contain that were created through meiosis?

1. 5 chromosomes
2. 10 chromosomes
3. 20 chromosomes
4. 7 chromosomes

**Practice 6**: Which of these processes describe meiosis?

1. A process in which DNA is replicated from one parent cell into two diploid daughter cells
2. A process in which DNA is sorted by age to pass on to two haploid daughter cells
3. A process in which DNA is combined by two parents into four daughter cells
4. A process in which a parent cell divides into four haploid daughter cells

**Practice 7:** Place the letters that represent the descriptions in the correct category below.

1. Related to asexual reproduction
2. Passes along genetic material
3. Creates 4 haploid daughter cells in total
4. Creates 2 diploid daughter cells in total
5. Creates unique sets of DNA
6. Passes exact DNA set from parent to daughter cell
7. Related to sexual reproduction

|  |  |  |
| --- | --- | --- |
| **Mitosis** | **Both** | **Meiosis** |
|  |  |  |

**Essential Question:** Compare asexual and sexual reproduction**.**

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