NAME_____

Mitosis/Meiosis Review

1. What is a gamete cell?

2. Define haploid.

3. Define diploid.

Answer each of the following with **Mitosis** or **Meiosis**

4. Occurs in the testes and ovaries to produce egg and sperm cells. _____
5. Reduces the number of chromosomes to half the normal number. _____
6. One replication followed by one cell division. _____
7. A cell with 20 chromosomes divides producing 2 cells with 20 chromosomes _____
8. Occurs in almost all cells in the body. _____
9. One replication followed by two cell divisions _____
10. Maintains the normal number of chromosomes _____
11. A cell with 20 chromosomes divides producing 4 cells with 10 chromosomes _____

12. A normal dog cell has 78 chromosomes. After a cell undergoes meiosis, how many chromosomes will the resulting cells have?

13. Match the appropriate process with each description.

a. asexual reproduction **b. sexual reproduction**

1._____ The offspring are genetically different from the parents

2._____Recombines contributions from two parents

3._____Produces the expected fruit or form

4._____Utilizes meiosis

6._____Requires only one parent.

7._____A plant reproduces using a seed.

8._____Grizzly bears mate during early summer. The male deposits his sperm inside the female to fertilize her eggs. But the eggs don't develop until the female begins hibernation.