Name: _____ Section: _____

Haploid (n) & Diploid (2n)

Directions: Answer the following questions to the best of your ability. You should refer to the table below to answer questions 3-6.

Total Number of Chromosomes in the Somatic Cells of Different Organisms	
Man	**46**
Dog	**78**
Fruit Fly	**8**
Crayfish	**200**
Corn	**20**

1. A cell with a complete set of chromosomes is described as having a _____ chromosome number.

2. A cell with an incomplete set of chromosomes (or half) is described as having a _____ chromosome number.

3. What is the haploid number for the Fruit Fly?

4. What is the diploid number for Corn?

5. For the dog, **n** is equal to…?

6. For the Crayfish, **2n** is equal to…?

7. If an organism had a haploid number of 300, what would its diploid number be? Why?

8. If an organism had a diploid number of 10, what would its haploid number be? Why?

9. What type of cell division (mitosis or meiosis) results in cells with a diploid number? Explain.

10. What type of cell division (mitosis or meiosis) results in cells with a haploid number? Explain.

11. Complete the following table.

Organism	Haploid # (n)	Diploid # (2n)
Lettuce	6	
Goldfish		94
Potato Plants		48
Organism X	3	