Directions: Study the diagram. Then answer the following questions.

1. Meiosis begins with one cell. How many cells are formed by the end of meiosis I?

2. What happens to the chromosomes of a cell in order for meiosis to begin?

3. Meiosis I is the same as what other reproductive process?

4. Meiosis begins with one cell. How many cells are formed by the end of meiosis II?

5. At the end of meiosis II, each of the haploid sex cells has only half the number of chromosomes as the original diploid cell. Why is this important?
Sexual Reproduction and Meiosis

Directions: Study the following diagrams. Then label the appropriate steps of meiosis.

1. ______________________________________________________________________
2. ______________________________________________________________________
3. ______________________________________________________________________
4. ______________________________________________________________________

Directions: Answer the following questions on the lines provided.

5. In what way is meiosis II similar to mitosis?

__________________________________________________________________________

6. What is a cell with pairs of chromosomes called? What is the name for a cell with no pairs (a single set) of chromosomes?

__________________________________________________________________________

7. What happens during prophase?

__________________________________________________________________________

8. How are sex cells different from other cells in the body?

__________________________________________________________________________

9. What happens during fertilization?

__________________________________________________________________________