



CHROMOSOME MAPPING ASSIGNMENT INSTRUCTIONS



PROCEDURE A:

- 1) Examine the diagram of perch chromosomes supplied. They have been removed from the nucleus of the white blood cell after replication.
- 2) Cut out each chromosome map of these 48 replicated chromosomes and arrange them on the worksheet with their other pair. Place the centromere of the replicated chromosomes on the lines of the worksheet.
- 3) Tape or glue down the arranged pairs in rows of 6. (Notice that a numbered chromosome will be paired with a lettered chromosome.)
- 4) Answer the following questions:
 - a) How many chromosomes are present in the spread or karyotype?
 - b) Which pair of the chromosomes are sex chromosomes?
 - c) What is the sex of this perch?
 - d) What is the diploid or $2n$ number of a yellow perch?

s I, what had happened to the DNA?

E. Prior to meiosis

how many sister chromatids per chromosome are visible during

1. Therefore, prophase I