

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

## Building a Karyotype: A Chromosome Study (Patient A)

Careen is 6 months pregnant. Both she and her husband Patrick are expecting the birth of their first child and are very excited. Careen just completed a routine ultrasound and was told by her doctor there is a potential problem. It appears that the unborn baby is not as grown as he/she should be after 6 months. For this reason, her doctor suggested amniocentesis. This process allows cells from the unborn child to be collected and analyzed. A picture of the unborn child's chromosomes has been taken and is partially arranged on the following page.

1. Cut out the unpaired chromosomes in the section titled "Cut-out chromosomes here". Match them up with the labeled chromosomes on the other half of the paper. Each labeled chromosome will have an identical match (size, shape, and color banding).
2. Glue each identical pair of chromosomes next to its match and then answer the questions below.

The term **diploid** or "2n" number refers to cells that have paired chromosomes. In every diploid human cell, there should be 22 pairs of chromosomes for a total of 44 chromosomes. Diploid cells belong to a category of cells called **somatic**. Somatic cells are body, or non-sex, cells. Examples of these include blood, skin, nerve, brain, and muscle cells. The vast majority of the human body are diploid, somatic cells. As mentioned, humans have 44 chromosomes in every diploid, somatic cell. The diploid chromosome number varies with each species of organism. Gorillas, for instance, have 48 chromosomes and dogs have 78 chromosomes. Diploid cells are created during the type of cell division called **mitosis**.

3. Define **DIPLOID**. \_\_\_\_\_
4. Define **SOMATIC**. \_\_\_\_\_

Gametes are sex cells and are always haploid. Haploid cells (n) have only the half the number of chromosomes compared to a diploid cell. Gametes that humans have 22 chromosomes because we have 22 pairs of chromosomes. Haploid cells, however, only have 22 single chromosomes. Chromosomes are not arranged in pairs in the sperm and egg. Haploid egg and sperm cells are created during a type of cell division called **meiosis**.

5. Define **HAPLOID**. \_\_\_\_\_
6. Define **GAMETE**. \_\_\_\_\_

Sperm cells (spermatozoa) from a male will fertilize an egg cell (ovum) from a female. If this happens, the two cells will fuse together and create a diploid cell called a zygote. Over 9 months, the zygote will grow into a fetus and eventually a baby.

7.
  - a. List two examples of diploid cells? \_\_\_\_\_
  - b. List two examples of haploid cell? \_\_\_\_\_
8. List 3 ways that somatic cells are different from gamete cells.
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_

A **karyotype** is a picture of an organism's chromosomes. Cells can be obtained from an unborn child using amniocentesis. Once obtained, the cells are treated so the chromosomes can be more visible under a microscope. A picture of the chromosomes is then taken and the chromosomes are arranged in pairs in order from largest to smallest, with the sex chromosomes being placed at the end.

Once created, the karyotype can be analyzed and a notation described. The **1<sup>st</sup>** part of a notation is to reveal the total number of chromosomes visible in the final karyotype. The **2<sup>nd</sup>** part of a notation is to list the sex chromosomes that are visible in the final karyotype. The **3<sup>rd</sup>** part of the notation is to list which chromosome number is altered. A plus sign (+) means the person has an extra chromosome and a minus sign (-) means they are lacking a chromosome. The table below is a partial list of some of the chromosome disorders. The notation for a male with **Werner Syndrome** would be: 47, XY, +8.

<b>Down Syndrome</b>	Three chromosome 21's
<b>Turner Syndrome</b>	One chromosome X's
<b>Edward Syndrome</b>	Three chromosome 18's
<b>Werner Syndrome</b>	Three chromosome 8's
<b>Phenylketonuria</b>	Two X and one Y chromosome
<b>Klinefelter Syndrome</b>	Two X chromosomes

# Lab A Chromosome Study Answer Key

**Guillaume Favre**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle on the right side.

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