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Index
Karyotype
Worksheet

Name: _____ Period: _____ Date: _____

Using the following diagrams please answer the corresponding questions

The following diagram is of a set of human chromosomes. This diagram is known as a **KARYOTYPE**. There are several things that can be seen in such a diagram. You will answer these things through the following readings and questions.

Karyotype A

1) Karyotype A is the first set of all chromosomes we will look at. Notice that the chromosomes are all paired up. How many pairs of chromosomes do you see? _____

2) Looking closer you will see that the pairs of chromosomes are paired according to their location among the chromosomes. List some locations that you see among paired chromosomes: _____

3) Each karyotype sheet also shows some important things about the sex of the organism. Looking at this particular karyotype what is the sex of the organism? _____

4) The chromosomes in the karyotype also show some light and dark bands. What do you think these "regions" of light and dark bands are? _____

5) If you start with chromosome number 1 and go with chromosome number 22 you will see a trend in size variation. What is this trend? _____

6) How do you think this trend affects the number of genes present on any particular chromosome? _____

7) Each of the pairs of chromosomes are numbered. How many pairs of **NUMEROUS** chromosomes do you see? _____

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