

# Chromosome & Cell Cycle Unit Review Worksheet

## Chromosomes

### 1. Match the following:

- \_\_\_\_\_ Loose strands of DNA & protein  
 \_\_\_\_\_ Condensed form of DNA  
 \_\_\_\_\_ Together, these make up equal parts of a chromosome  
 \_\_\_\_\_ The point at which two chromatids are joined

### Word Bank

- a. Chromosome  
 b. Centromere  
 c. Chromatin  
 d. Sister Chromatids

### 2. Examine the karyotype to answer the next questions:

- a. What is the gender of this person? \_\_\_\_\_  
 b. How many pairs of chromosomes are there? \_\_\_\_\_  
 c. How many chromosomes can be found in:

Somatic cells? \_\_\_\_\_

Egg cells (of this species)? \_\_\_\_\_

The gametes? \_\_\_\_\_

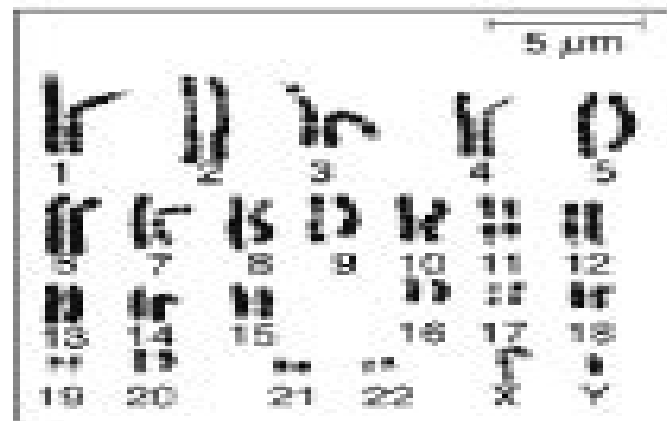
Cells made by mitosis? \_\_\_\_\_

Nerve cells? \_\_\_\_\_

Diploid cells? \_\_\_\_\_

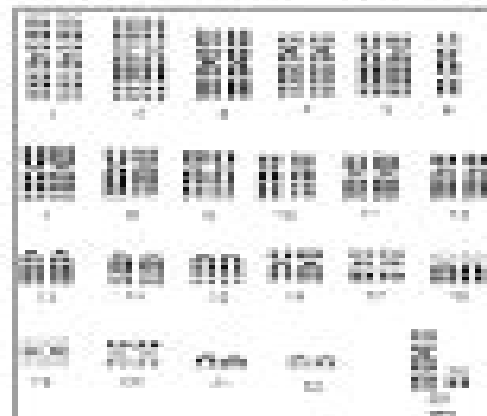
Haploid cells? \_\_\_\_\_

Sperm cells? \_\_\_\_\_

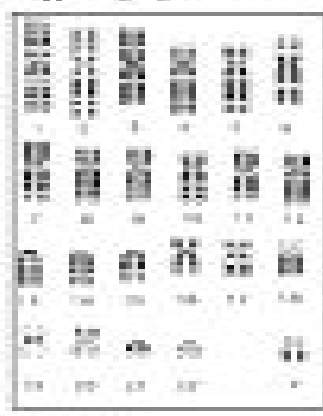


### 3. Use the pictures below to answer the next set of questions.

Does the statement describe karyotype A, B, both A & B, or neither?



**A**



**B**

- a. It could be from a diploid cell: \_\_\_\_\_  
 b. It could be from a sperm cell: \_\_\_\_\_  
 c. It could be from a skin cell: \_\_\_\_\_  
 d. It could be from an egg cell: \_\_\_\_\_  
 e. My chromosomes were inside a nucleus: \_\_\_\_\_  
 f. I am from a female: \_\_\_\_\_

# Lab A Chromosome Study Answer Key

**VM Jensen**



## Lab A Chromosome Study Answer Key:

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examples that can be downloaded from the Wiley website to be used directly without having to develop prototypes in your laboratory Providing a wealth of information on both laboratory management and molecular and cytogenetic testing Cytogenetic Laboratory Management will be an essential tool for laboratorians worldwide in the field of laboratory testing and genetic testing in particular This book gives the essentials of Developing and implementing good quality management programs in laboratories Understanding design control of tests and preclinical validation studies and reports FDA guidelines for laboratory developed tests Use of reagents instruments and equipment Cost of testing assessment and process improvement using Six Sigma methodology Staffing training and competency objectives Complete training programs for molecular and cytogenetic technologists Standard operating procedures for all components of chromosomal analysis FISH and microarray testing of different specimen types This volume is a companion to Cytogenetic Abnormalities Chromosomal FISH and Microarray Based Clinical Reporting The combined volumes give an expansive approach to performing reporting and interpreting cytogenetic laboratory testing and the necessary management practices staff and testing requirements

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