

# Download File PDF Human Genome Making Karyotypes Lab Answers

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

[Download PDF version of :](#)  
**Human Genome Making Karyotypes Lab Answers**

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Chapter 11 The Human Genome**

**Making Karyotypes**

**Introduction**  
Several human genetic disorders are caused by extra, missing, or damaged chromosomes. In order to study these disorders, cells from a person are grown with a chemical that stops cell division at the metaphase stage. During metaphase, a chromosome exists as two chromatids attached at the centromere.  
The cells are stained to reveal banding patterns and placed on glass slides. The chromosomes are observed under the microscope, where they are counted, checked for abnormalities, and photographed. The photograph is then enlarged, and the images of the chromosomes are individually cut out. The chromosomes are identified and arranged in homologous pairs. The arrangement of homologous pairs is called a karyotype. In this investigation, you will use a sketch of chromosomes to make a karyotype. You will also examine the karyotype to determine the presence of any chromosomal abnormalities.

**Problem**  
How can chromosomes be observed?

**Pre-Lab Discussion**  
Read the entire investigation. Then work with a partner to answer the following questions.

1. What class to the presence of certain genetic disorders can be seen in a karyotype?  
\_\_\_\_\_
2. Why might a laboratory worker attempting to diagnose a genetic disorder prefer to work with photographs of chromosomes rather than the chromosomes themselves?  
\_\_\_\_\_
3. Why would it be much more difficult to construct a karyotype of unstained chromosomes?  
\_\_\_\_\_
4. Which pair of chromosomes can contain two very different chromosomes and still be considered normal? Explain your answer.  
\_\_\_\_\_
5. How do autosomes differ from sex chromosomes?  
\_\_\_\_\_

© Pearson Education, Inc.  
Biology Laboratory Manual A / Chapter 11 323