

Activity A:
Male and female
karyotypes

Get the Gizmo ready:

- Click **Reset**.



Question: How are male karyotypes different from female karyotypes?

1. **Compare:** In the SIMULATION pane, make sure **Subject A** is selected. Click on and drag one of subject A's chromosomes to the area labeled **Identify**. Use the arrows to compare the chromosome you picked with chromosomes 1 through 22 and also with X and Y.

Which chromosome did you select? 1 selected B

2. **Create:** Drag the chromosome to the appropriate position on the KARYOTYPING pane. Then select another chromosome, identify it, and place it on the karyotype.

When you have identified and placed all of the chromosomes, click the camera () to take a snapshot of the karyotype. Paste the snapshot into a document, and label it "Subject A."

3. **Count:** Chromosomes 1 through 22 are called **autosomes**. Examine the karyotype you have created. How many total autosomes do human cells have? It has 44

4. **Draw conclusions:** Look at chromosome pair 23. These chromosomes are known as **sex chromosomes** because they determine the sex of an individual. Females have two copies of the X chromosome. Males have one X chromosome and one Y chromosome.

Examine the karyotype. Is subject A a male or female? Male

How do you know? Because they have one X and one Y

Click the DIAGNOSIS tab to check your answer.

5. **Analyze:** Select **Subject B** from the SIMULATION pane. Complete subject B's karyotype. Take a snapshot of the completed karyotype, paste it into your document, and label it.

Examine the karyotype. Is Subject B a male or female? Female

How do you know? They had 2 X chromosomes

Click the DIAGNOSIS tab to check your answer.

6. **Think and discuss:** On the SIMULATION pane, compare the X and Y chromosomes. Which chromosome do you think has more DNA? Explain. X, because it is bigger

Explore Learning Student Exploration Human Karyotyping Answers

Wenbin Ji



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