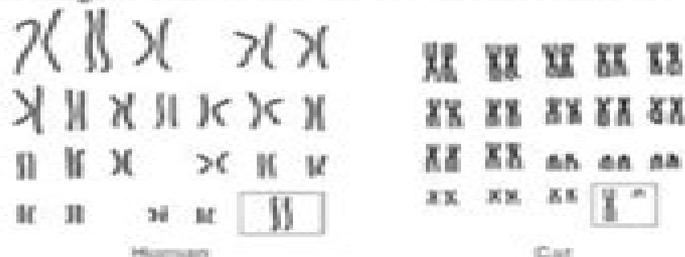


Genes and chromosomes

Student: _____ Class: _____

Humans and cats

1. The following diagrams show the chromosome map of a human and a cat. The human chromosomes are shown as single stranded and the cat chromosomes are shown as double stranded.



(a) What is happening when chromosomes appear as double strands?

.....

(b) Compare the chromosomal number of humans and cats.

.....

(c) Determine the sex of the human and the cat.

.....

Klinefelter's syndrome

2. Klinefelter's syndrome is a genetic disease in human males. It leads to reduced fertility due to small testes. These males have poor beard growth, wider hips and show some breast development. The image below shows a chromosomal map for a male with this syndrome.

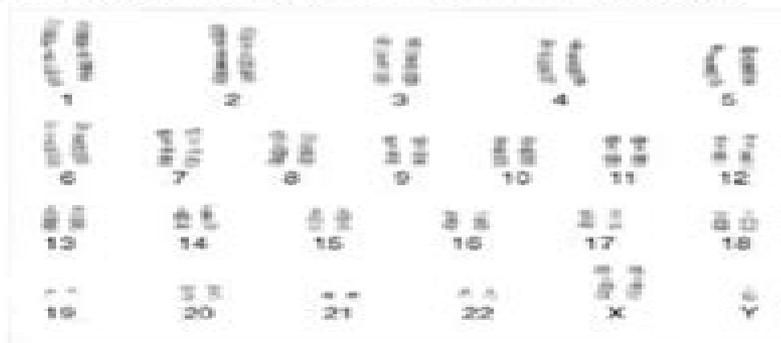


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