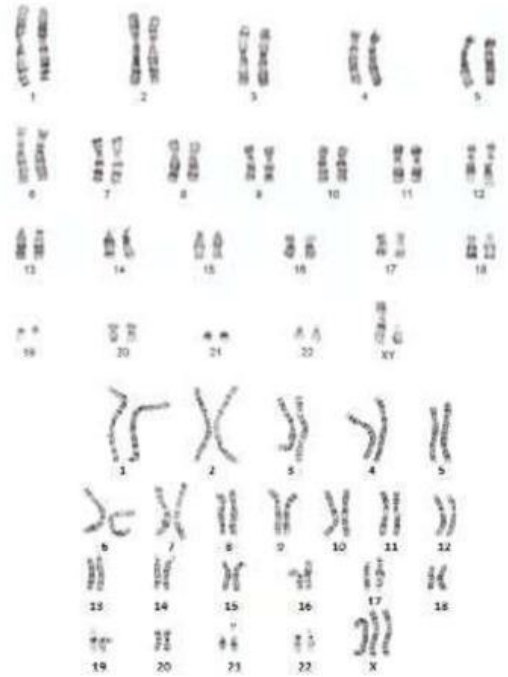


Karyotype Worksheet

- Look at the karyotype to the right
 - List the Autosomal chromosomes in numbers
 - Put a box around the Sex chromosomes
 - This is a ? _____
- How many total chromosomes does a normal person have?
- Write the number of a homologous pair
- Look at the karyotype to the right. Do you see any chromosomal abnormalities?
- Put a circle around the abnormal chromosomes
- Using the Karyotype key below for chromosomal diseases, identify the disease this person has

- Is this person male or female? _____



Karyotype key	
Chromosome Problem	Name of Disorder
X	Turner's Syndrome
XXX	Triple X Disease
XXY	Klinefelter's Syndrome
XYY	Jacob's Syndrome
Trisomy 18	Edward's Syndrome
Trisomy 21	Down's Syndrome
Trisomy 13	Patau Syndrome



- Look at the karyotype to the left. Is it

MALE or FEMALE

NORMAL or ABNORMAL

- Using the Karyotype key, what disease does the karyotype above have?

10. Which chromosome is the longest and has the most genes? 1 or 21

11. Which chromosome is the shortest and has the fewest genes? 2 or 22

12. In a normal karyotype how many autosomal chromosomes are there? _____

13. In a normal karyotype how many sex chromosomes are there? _____

14. One type of chromosomal mutation is trisomy 21. What is another name for it? _____

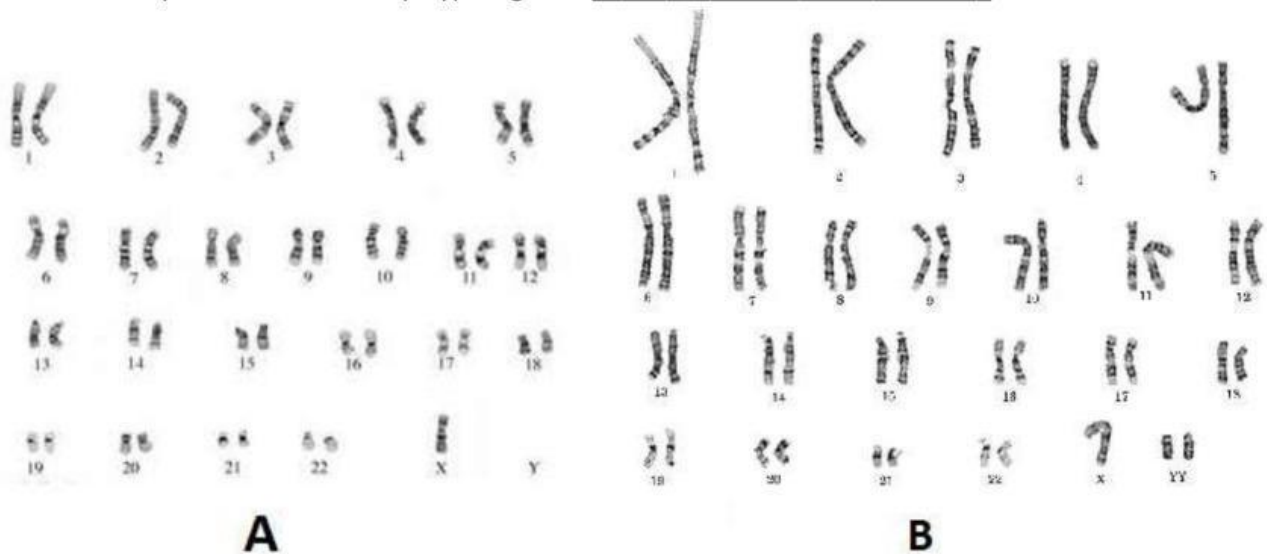
15. Identify the disorder in karyotype Figure A. _____ MALE or FEMALE

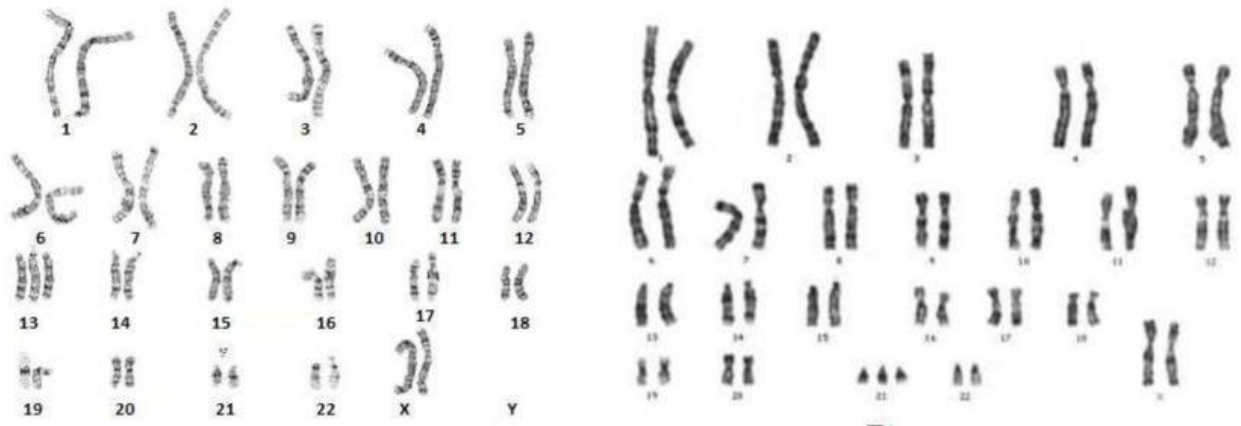
16. Identify the disorder in karyotype Figure B. _____ MALE or FEMALE

17. Identify the disorder in karyotype Figure C _____ MALE or FEMALE

18. Identify the disorder in karyotype Figure D _____ MALE or FEMALE

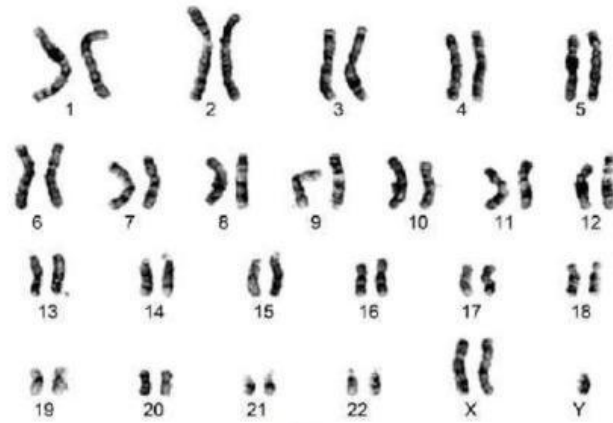
19. Identify the disorder in karyotype Figure E _____ MALE or FEMALE





C

D



E