

Diagnostics Using Karyotypes

Name: _____ Period: _____

1. **BE VERY CAREFUL TO NOT LOSE ANY CHROMOSOMES, OR GET THEM MIXED WITH OTHER STATIONS**
2. In the bag there are numbered chromosomes, place the numbered chromosomes in the correct location on the answer mat. **DO NOT LOSE THE OTHER CHROMOSOMES.**
3. The rest of the chromosomes are **homologous** to the numbered chromosomes. Match the unnumbered chromosomes to their numbered partner on the mat. **DO NOT LOSE ANY CHROMOSOMES.**
4. Observe the karyotype, fill in the appropriate row in the data table by answering the following questions:
 - a. Is the patient a male or a female?
 - b. Are there any nondisjunction disorders apparent in the karyotype?
 - c. Which disorder is present in the patient? Use the computers or a phone to research, if necessary.
5. **CAREFULLY PUT ALL CHROMOSOMES BACK INTO THE BAG. DO NOT LOSE ANY CHROMOSOMES. IF CHROMOSOMES ARE LOST REPORT IT TO MRS. MOBERLY IMMEDIATELY.**
6. Move on to another available station to diagnose another patient.

STATION	MALE OR FEMALE?	NONDISJUNCTION DISORDER/ CHROMOSOMAL ABNORMALITY	NAME OF DISORDER	PROGNOSIS FOR PATIENT (IS THE DISORDER FATAL?)
A				
B				
C				
D				
E				
F				