Name _____ Date _____ Period _____

Chapter 7 Concept Review
B I O L O G Y

Directions: *Answer the following questions using your notes and textbook*

1. Two copies of each autosomal gene affect _____.

2. Most human traits are result of _____ genes.

3. Chance of having disorder can be _____.

4. Some disorders caused by _____ alleles on autosomes.

5. Must have _____ copies of recessive allele to have _____.

6. Disorders often appear in offspring of parents who are _____.

7. A person who is heterozygous for disease is called a _____- does not show

disease symptoms

8. Mendel figured out much about heredity, but did not know about _____.

9. _____ of genes on sex chromosomes differs from autosomal genes.

10. Genes located on sex-chromosomes called _____ - _____ genes.

11. In mammals and some other animals, individuals with ___ ___ are female and ___ ___ are
male

12. Many _____ are result from alleles with range of dominance, rather than a strict

dominant and recessive relationship

13. _____ Dominance- Neither allele completely dominant.

14. _____- Both traits are expressed completely.

15. Human blood type is example of _____. Also has 3 different alleles-

trait also considered a _____ - _____ trait

16. _____ traits- two or more genes determine trait.

17. _____ _____ result of four genes that interact to produce range of colors

18. Human traits also affected by _____ (nutrition and health care).

19. Thomas Hunt _____ worked with fruit flies (Drosophila melanogaster).

20. Some traits seemed to be _____ together. Morgan called them linked

traits. (found on _____ chromosome)

21. Meiosis _____ assorts chromosomes when gametes are made for

sexual reproduction.

22. Both male and females can be carriers of _____ disorders.

23. Only _____ can be carriers of sex-linked disorders.

24. Male who has gene for disorder on _____-chromosome will have disorder.

25. A _____ is a chart for tracing genes in a family.

26. Phenotypes are used to infer _____ on a pedigree.

27. Pedigrees used for studying genetics in _____.

28. _____- picture of all chromosomes in a cell.

29. Stains used to produce _____ or bands

30. Used to identify certain genetic disorders in which there are extra or too few

_____ (i.e. Down syndrome