

\_\_\_\_\_ Ex. \_\_\_\_\_  
24. Multiple Alleles: \_\_\_\_\_

\_\_\_\_\_ Ex. \_\_\_\_\_

25. What is Sickle Cell anemia? \_\_\_\_\_

26. What are the 2 chromosomes for a male? \_\_\_\_\_ for a female? \_\_\_\_\_

27. Who determines the sex of a child mom or dad? \_\_\_\_\_

28. What is hemophilia? \_\_\_\_\_

29. What is a sex-linked trait and give examples. \_\_\_\_\_

30. Can a daughter have a sex-linked disorder if her father has normal genes for the trait? Explain. \_\_\_\_\_

31. What is a carrier? \_\_\_\_\_

**YOU SHOULD BE ABLE TO COMPLETE PUNNET SQUARES FOR MONOHYBRID TRAITS, DIHYBRID TRAITS, SEX-LINKED, CO-DOMINANT, INCOMPLETELY DOMINANT AND MULTIPLE ALLELES!! YOU SHOULD ALSO BE ABLE TO READ A PEDIGREE AND DETERMINE THE GENOTYPES OF THE PEOPLE REPRESENTED IN IT!** ( See me if you would like additional practice problems!! Or just redo what you already have in your workbooks on a separate piece of paper.)

32. What is DNA? \_\_\_\_\_

33. Where in the cell are chromosomes located? \_\_\_\_\_

34. In what 2 organelles can DNA be found? \_\_\_\_\_ & \_\_\_\_\_

35. What 2 scientists established the structure of DNA? \_\_\_\_\_

36. What scientist is credited as the Father of Genetics? \_\_\_\_\_

37. What is the shape of DNA? \_\_\_\_\_

38. What are the base pairs of DNA and how do they "match up"? \_\_\_\_\_

39. What is the difference between DNA and RNA? \_\_\_\_\_

40. How do some cells become brain cells and others become skin cells, when the DNA in ALL of the cells is exactly the same? \_\_\_\_\_

41. Why is RNA necessary to act as a messenger? Why can't the code be taken directly from the DNA? \_\_\_\_\_

42. What are 3 major ways to damage DNA? \_\_\_\_\_

43. What can you do to preven damaging your DNA? \_\_\_\_\_

44. What are 3 ways that genetic engineering can be thought of as helpful? \_\_\_\_\_