GENETICS CARD REVIEW ANSWERS

1. E  
2. B  
3. C  
4. C-hemophilia  
5. If mom is O, baby’s B came from dad. Dad can’t be A or O blood type.  
6. ½ x ½ x ½ = 1/8  
7. Test cross with C-gg  
8. Tay-Sachs, Cystic fibrosis, PKU  
9. C  
10. C- X-linked Dominant; or mom would be filled in if son has it.  
11. E. sperm are haploid/need one of each letter  
12. D if green , both gotta be yy  
13. A- Bb  
14. B – BB  
15. Sex limited (sex influenced)  
16. 100% of males will have white eyed; 100% of females will have red eyes  
17. Genomic imprinting  
18. ½  
19. ½ x ½ x ½ x ½ x ½ x ½ = 1/64  
20. Down syndrome; can’t see single gene mutations in a karyotype  
21. Pleiotropy  
22. Methyl tags attach to cytosine in DNA and turn off genes  
23. Genes are linked  
24. 34/283 = 12%   
25. Eye color\_\_\_\_12\_\_\_\_\_\_Wings  
26.epistasis  
27. Malaria resistance  
28. Huntington’s, achondroplasia  
29.nondisjunction  
30. Down syndrome, Turner syndrome, Klinefelter syndrome, Xyy, XXX   
31. Males don’t have a back up X (no copilot) to cover the mutation; girls have 2 X’s  
32. Tay-Sachs  
33. Lysosomes  
34. ¼ X ½ X ¼ x ½ = 1/64  
35. D