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