Statistics Answers

ACTM State Contest

April 2014

1. d
2. b
3. d
4. b
5. a
6. d
7. d
8. a
9. c
10. a
11. a
12. d
13. a
14. d
15. b
16. c
17. b
18. a
19. d
20. a
21. c
22. d
23. a
24. d
25. a

Tie Breaker Items

1. P[ +, test/cancer = Y] = 2/3 or approximately 0.7

2. P[+ test/cancer = N] = 18/200 or approximately 0.90

3. P[cancer = Y/+ test] = 2/20 or 1/10 or 0.1