

2025 SOAPS Invitational
Designer Genes C



Science Olympiad at Penn State Invitational
Saturday, January 17th, 2026
The Pennsylvania State University, University Park, PA

Team Name: _____

Participant Names: _____

Total Score: ____/318

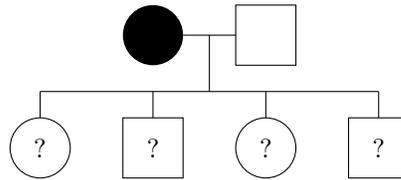
Rank: _____

This test was written by Krish Shah (Carnegie Mellon University '29)

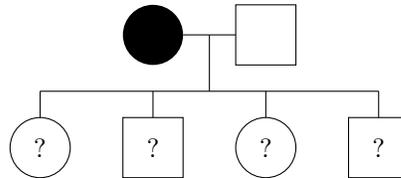
Please direct any questions to krishshah@cmu.edu

- | | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 1. _____ | 11. _____ | 21. _____ | 31. _____ | 41. _____ |
| 2. _____ | 12. _____ | 22. _____ | 32. _____ | 42. _____ |
| 3. _____ | 13. _____ | 23. _____ | 33. _____ | 43. _____ |
| 4. _____ | 14. _____ | 24. _____ | 34. _____ | 44. _____ |
| 5. _____ | 15. _____ | 25. _____ | 35. _____ | 45. _____ |
| 6. _____ | 16. _____ | 26. _____ | 36. _____ | 46. _____ |
| 7. _____ | 17. _____ | 27. _____ | 37. _____ | 47. _____ |
| 8. _____ | 18. _____ | 28. _____ | 38. _____ | 48. _____ |
| 9. _____ | 19. _____ | 29. _____ | 39. _____ | 49. _____ |
| 10. _____ | 20. _____ | 30. _____ | 40. _____ | 50. _____ |

51. (a) (1 point) _____
(b) (2 points)



- (c) (2 points)



- (d) (4 points)

- (e) (4 points)

- (f) (2 points) _____

(g) (3 points)

52. (a) (2 points)

(b) (2 points)

(c) (3 points)

(d) (3 points)

(e) (2 points)

(f) (4 points)

(g) (2 points)

(h) (4 points)

(i) (4 points)

(j) (4 points)

(k) (4 points)

53. (a) (4 points)

(b) (3 points)

(c) (3 points)

(d) (2 points)

(e) (3 points)

(f) (2 points)

(g) (4 points)

(h) (3 points)

(i) (1 point)

(j) (2 points)

54. (a) (2 points) _____

(b) (1 point) _____

(c) (1 point) _____

(d) (2 points) _____

(e) (3 points)

(f) (2 points)

(g) (3 points) _____

(h) (2 points)

(i) (2 points) _____

(j) (4 points) _____

(k) (3 points)

55. (a) (2 points)

(b) (2 points)

(c) (4 points)

(d) (2 points)

(e) (3 points)

56. (a) (1 point) _____

(b) (5 points)

(c) (2 points)

(d) (3 points)

(e) (2 points) _____

(f) (3 points)

(g) (2 points)

(h) (6 points)

57. (a) (1 point) _____

(b) (2 points)

(c) (3 points)

(d) (2 points) _____

(e) (2 points)

(f) (2 points)

58. (a) (1 point) _____

(b) (3 points)

(c) (3 points)

(d) (1 point) _____

(e) (2 points) _____

(f) (4 points)

(g) (3 points)

(h) (2 points)

59. (a) (5 points)

(b) (2 points)

(c) (1 point) _____

(d) (2 points)

60. (a) (2 points) _____

(b) (2 points) _____

(c) (2 points) _____

(d) (2 points)

(e) (2 points) _____

(f) (3 points)

(g) (5 points)

(h) (3 points) _____

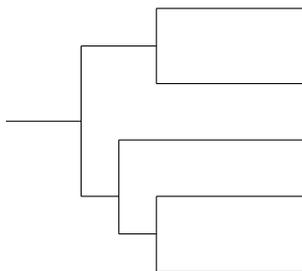
(i) (2 points) _____

(j) (4 points)

(k) (6 points)

61. (a) (1 point) _____

(b) (5 points)



(c) (3 points)