

66th ANNUAL HIGH SCHOOL HONORS MATHEMATICS CONTEST

April 22, 2023
on the campus of the
University of California, San Diego

PART I 25 Questions

Welcome to the contest! Please do not open the exam until told to do so by the proctor.

EXAMINATION DIRECTIONS:

1. Print (**clearly**) your Name and Contest ID number at the top of **each page of the contest**. (Keep your ID number handy for Part II.)
2. Calculators or other electronic devices may **not** be used.
3. There are 25 multiple-choice questions on Part I. You have 90 minutes for Part I.
4. Clearly indicate your answer in the bubble for each problem. Fill in the bubble, or put a clear X, or a checkmark; just make sure your selection is clear.

Scoring

+4 points for a correct answer.
0 points for no answer.
-1 points for an incorrect answer.

Good Luck!

There will be a 15 minute break after Part I before proceeding to Part II.

Please let your coach know if you plan to attend the Awards Banquet on Tuesday, May 2, 6:00–8:30pm.

ANSWERS.

- | | |
|---------|---------|
| 1. (D) | 14. (B) |
| 2. (E) | 15. (B) |
| 3. (E) | 16. (D) |
| 4. (C) | 17. (B) |
| 5. (C) | 18. (D) |
| 6. (C) | 19. (C) |
| 7. (E) | 20. (A) |
| 8. (B) | 21. (C) |
| 9. (C) | 22. (D) |
| 10. (D) | 23. (B) |
| 11. (D) | 24. (B) |
| 12. (A) | 25. (E) |
| 13. (B) | |

(A)×2 (B)×7 (C)×6 (D)×6 (E)×4