

# 65th ANNUAL HIGH SCHOOL HONORS MATHEMATICS CONTEST

April 16, 2022  
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 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.

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### Scoring

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

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**Good Luck!**

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

**ANSWERS.**

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

(A)×5 (B)×6 (C)×7 (D)×4 (E)×3