Contest: Intense Mental Abilities Grand Exam (IMAGE) April 1, 2023 – June 20, 2023 11:59pm ET

Participants: 7

Test Designer: James Dorsey

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Contest Information Cheating: Do not discuss answers/hints. No time limit. Two attempts and reference aids are allowed. No penalty for guesses/wrong answers. **Intense Mental Abilities Grand Exam (IMAGE)** Observe the rotation and symmetry of the letters/numbers/symbols; for the solutions, use your keyboard - no drawing or software required! I. Series 1. Complete the series: * *** 00 000 ? 0 2. Complete the series: ? # # # ## ## ### ### #### Complete the series: 3. * *** ? *** * * ** * II. Matrices Find the missing element in this matrix: 4. ? ٨ 0 ٨ 0 ٨ 0 . Find the missing element in this matrix: 5. 0 1.\ [::] + :+: ? {} {^} 6. Find the missing element in this matrix: */x x*/ /x* /x* */x x*/ x*/ /x* */x /*x x/* x/* *x/ *x/ /*x *x/ /*x x/* X/* /*x ? *x/ x/*

/*x

7. Complete the analogy:

*x/

 Z : Z :: S : ?

 8.
 Complete the analogy:

) : (::] : ?
 ?

 9.
 Complete the analogy:

0:Q::P:?

(

С

IV. **Odd-One-Out**

10. Select the letter (A, B, or C) of the item that is different from the others:

С

A

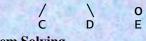
0

А

Α

11. Select the letter (A, B, C, or D) of the item that is different from the others:

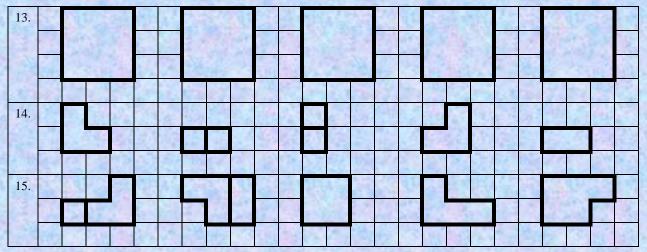
12. Select the letter (A, B, C, D, or E) of the item that is different from the others:



D

В V. **Problem Solving**

For each item, there are 5 of 6 external sides of a solid object shown; find the sixth external side from the multiple-choice options.



Write the letter that corresponds to the sixth external side for each item (13, 14, and 15). Multiple-choice options (A-T):

A	2	6			В		6.5	22	6	С		45			D		50		1	E		
2,		161		3	10		24							25		No.					2	/
								15				13	Sec.		6				A		X	
										3	3					8	F				-	
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P					•										6				1	т		
٢	- 6				Q	3		-	- 24	R	3.6		7		S	1		16		-		
1			1				-			100												1
			2	- 1	10	0						5 0										

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Ranking	Name	Country	1 st Attempt 2 nd Attempt		Mean Score	Prize				
Winner	Jim Lorrimore Susumu Ota Nobuo Yamashita	England Japan Japan	15	N/A	15	Free test submission and free society membership until July 31, 2023.				
2 nd Place	Lukáš Puškáš Victor Balacescu	Slovakia Romania	14	N/A	14	Free test submission until July 15, 2023.				
3 rd Place	Motoki Semura	Japan	13	N/A	13	¹ / ₂ -off test submission until June 30, 2023.				
4 th Place	Andrius Jodinskas	Wales	12	N/A	12	Secret Prize: given to all participants				

Final Scoreboard (June 20, 2023)

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