

Contest: Intense Mental Abilities Grand Exam (IMAGE)

April 1, 2023 – June 20, 2023 11:59pm ET

Participants: 7

Test Designer: [James Dorsey](#)

Table of Contents

Topic	Page
Contest Information	3
Intense Mental Abilities Grand Exam (IMAGE).....	3
Final Scoreboard (June 20, 2023).....	5

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:

* oo *** ooo ? o

2. Complete the series:

#	?	#	#
		##	##
		###	###
			####

3. Complete the series:

	*		

?			

		*	
			*
			**
			*

II. Matrices

4. Find the missing element in this matrix:

o	^	?
.	o	^
^	.	o

5. Find the missing element in this matrix:

(.)	/O\	/. \
[+]	[::]	::+
{^}	{}	?

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	*x/	

III. Analogies

7. Complete the analogy:

Z : Z :: S : ?

8. Complete the analogy:

) : (::] : ?

9. Complete the analogy:

O : Q :: P : ?

IV. Odd-One-Out

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

- C L (
- A B C

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

- o 0 O ¯
- A B C D

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

- | - / \ o
- A B C D E

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.

13.					
14.					
15.					

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

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T

Final Scoreboard (June 20, 2023)

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.
2nd Place	Lukáš Puškáš Victor Balacescu	Slovakia Romania	14	N/A	14	Free test submission until July 15, 2023.
3rd Place	Motoki Semura	Japan	13	N/A	13	½-off test submission until June 30, 2023.
4th Place	Andrius Jodinskas	Wales	12	N/A	12	Secret Prize: given to all participants