

**Contest: Intellectual Spatial Orientation (ILLUSION)**

**April 1, 2019 – June 20, 2019 11:59pm ET**

**Participants: 16**

**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.

**Intellectual Spatial Orientation (ILLUSION)**

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:

(  
?  
{

2. Complete the series:

<<,  
>>'  
'>>  
?

3. Complete the series:

XXX				X		X X		X		X X
X X	X	?	X	XXX		X X		XXX		X X
XXX				X		X X		X		X X

**II. Matrices**

4. Find the missing element in this matrix:

\	/
/	?

5. Find the missing element in this matrix:

><	{}
<>	?

6. Find the missing element in this matrix:

@~	~	@
#\$	\$	#
?	%	*

**III. Analogies**

7. Complete the analogy:

/[ : ]\ :: [ / : ?

8. Complete the analogy:

) ( : ( :: <> : ?

9. Complete the analogy:

[ : [\ :: / : ?  
\ ]

**IV. Odd-One-Out**

10. Select the letter (A, B, C, D, E, F, G, H, or I) of the item that is different from the others:

S	I	H	Z	N	=	-		O
A	B	C	D	E	F	G	H	I

11. Select the letter (A, B, C, D, E, F, G, H, I, or J) of the item that is different from the others:

F	T	L	M	Z	P	U	K	A	C
A	B	C	D	E	F	G	H	I	J

12. Select the letter (A, B, C, D, E, F, G, H, I, J, or K) of the item that is different from the others:

/	\	-		—	~	T	Z	W	N	E
A	B	C	D	E	F	G	H	I	J	K

**V. Problem Solving**

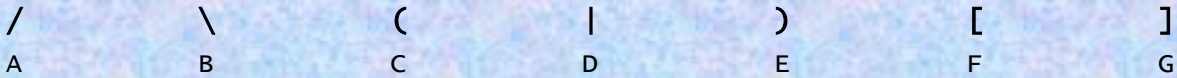
13. Select the letter (A, B, C, D, or E) of the item that needs to be removed to make the series correct:



14. Select the letter (A, B, C, D, E, or F) of the item that needs to be removed to make the series correct:



15. Select the letter (A, B, C, D, E, F, or G) of the item that needs to be removed to make the series correct:



**Final Scoreboard (June 20, 2019)**

Ranking	Name	Country	1 <sup>st</sup> Attempt	2 <sup>nd</sup> Attempt	Mean Score	Prize
<b>Winner</b>	Tiberiu Sammak	Romania	14	15	14.5	Free test submission and free society membership until July 31, 2019.
<b>2<sup>nd</sup> Place</b>	Andrew Hayles David Quint	USA USA	14	N/A	14	Free test submission until July 15, 2019.
<b>3<sup>rd</sup> Place</b>	Göran Åhlander Yukun Wang	Sweden China	13 14	14 13	13.5	½-off test submission until June 30, 2019.
4 <sup>th</sup> Place	Jim Lorrimore Anthony Brown José Enrique Benlloch Izquierdo Patrick Liljegren Pierre Zakia	England USA Spain Sweden France	13	N/A	13	Secret Prize: given to all participants
5 <sup>th</sup> Place	Alexandre Duran	Brazil	11	14	12.5	
6 <sup>th</sup> Place	Andrius Jodinskas Nathan Beekmeyer	Wales Canada	12	N/A	12	
7 <sup>th</sup> Place	Vincent van der Weide	Netherlands	11	10	10.5	
8 <sup>th</sup> Place	Tonny Sellén	Sweden	10	N/A	10	