

Contest: Online Advanced Spatial Intelligence Scale (OASIS)

April 1, 2017 – June 20, 2017 11:59pm ET

Participants: 15

Test Designer: [James Dorsey](#)

Table of Contents

Topic	Page
Contest Information	3
Contest: Online Advanced Spatial Intelligence Scale (OASIS)	3
Final Scoreboard (June 20, 2017)	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.

Contest: Online Advanced Spatial Intelligence Scale (OASIS)

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:

v	 ^	<	\	?
-				

2. Complete the series:

**	**	*#	**	?
#*	**	**		
	#*			

3. Complete the series:

/o	w/	\v	x\	w	?	v	o_
----	----	----	----	---	---	---	----

II. Matrices

4. Find the missing element in this matrix:

v	-	^
A		A
O	+	?

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:

NZ	ZZZN	XIXII	?
ZNZ	: ZNZ	:: IXX	: ?
NZZZ	ZN	I	

9. Complete the analogy:

** *	****	*O*X	?
*O**	: .*O*	:: ***X	: ?
****	***	**XX	
* .**	****	*O**	

IV. Odd-One-Out

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

.
.
.
.
A	B	C

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

OX*	O	X	*XO
X	X	O	X
O	OX*	OX*	O
A	B	C	D

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

N	P	Z	X	I
A	B	C	D	E

V. Problem Solving (The following three problems are all related to each other)

13. Abe purchased a large bar of soap in the shape of a perfect cube with 12-inch sides. He wants to cut the soap to share pieces of it with his friends. If he makes 2 straight cuts through the bar of soap, what is the maximum amount of pieces (without moving them)?
14. Carefully think about this analogy: $3 : 8 :: 7 : ?$
15. Changing his mind, he wants to share pieces of it with his college graduation class as a joke. What is the maximum amount of pieces after 12 straight cuts through this large bar of soap (without moving the pieces)?

Final Scoreboard (June 20, 2017)

Ranking	Name	Country	1 st Attempt	2 nd Attempt	Mean Score	Prize
Winner	Yuki Sunagawa	Japan	15 (perfect score)	N/A	15	Free society memberships in Opal Quest Group & free (con)test submissions until Dec. 31, 2018
2nd Place	Tetsuo Kanaoka Daniel Hilton Rossini Mirko Heinrich Siemens	Japan England Italy Germany	14	N/A	14	Free society memberships in Opal Quest Group & free (con)test submissions until Dec. 31, 2017
3rd Place	David Koeder Nguyen Tran Hoai Thuong Conor McLaughlin	Switzerland Vietnam USA	12	N/A	12	Free society memberships in Opal Quest Group until Dec. 31, 2017
4 th Place	José Enrique Benlloch Izquierdo	Spain	11	12	11.5	Secret Prize: given to all participants
5 th Place	Yohei Furutono	Japan	12	10	11	
6 th Place	Jawdat Wehbe Wehbe	Venezuela	10	11	10.5	
7 th Place	Susumu Ota	Japan	10	9	9.5	
8 th Place	Jim Lorrimore	England	8	N/A	8	
	Alexi Edin	Sweden	9	7	8	
	Konstantinos Vlachopoulos	Greece	7	9	8	