

Contest: Compilation of Excellent Spatial Abilities (CELESTIAL)

April 1, 2020 – June 19, 2020 11:59pm ET

Participants: 20

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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.

Compilation of Excellent Spatial Abilities (CELESTIAL)

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:

v
-
^
<
\
?

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:

v!	: ^i	:: *H	: ?
!v	i^	H*	

9. Complete the analogy:

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

IV. Odd-One-Out

10. 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

11. 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

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

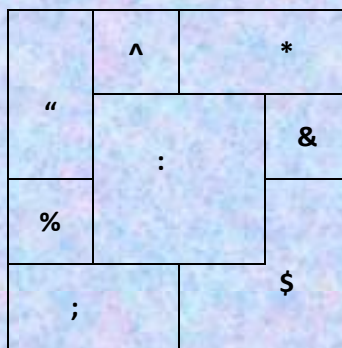

 A B C D E F

V. Problem Solving

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

/ \ (|) []
 A B C D E F G

14. State the order that the following overlapping same-sized squares were put on top of each other:



15. Abe purchased a large bar of soap in the shape of a perfect cube with 12-inch sides. 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 19, 2020)

Ranking	Name	Country	1 st Attempt	2 nd Attempt	Mean Score	Prize
Winner	Luca Fiorani	Italy	14	15	14.5	Free test submission and free society membership until July 31, 2020.
2nd Place	Heinrich Siemens Merlin Thieme	Germany Germany	14 14	N/A 14	14	Free test submission until July 15, 2020.
3rd Place	Jewoong Moon Hidden Matteo Basile Mirko Rossini	S. Korea Hidden Italy Italy	13	N/A	13	½-off test submission until June 30, 2020.
4 th Place	Hidden James Gordon	Hidden USA	13 12	12 13	12.5	Secret Prize: given to all participants
5 th Place	Jim Lorrimore	England	12	N/A	12	
	Maximilian-Andrei Druță	Romania	12	N/A		
	Nitish Joshi	India	12	N/A		
	Gernot Feichter	Austria	12	12		
	Tiberiu Sammak	Romania	12	N/A		
6 th Place	Göran Åhlander	Sweden	11	12	11.5	
7 th Place	Anthony Sepulveda	USA	11	N/A	11	
8 th Place	Hidden Alexandre Alves Duran	Hidden Brazil	10	N/A	10	
9 th Place	Andrius Jodinskas	Wales	10	8	9	
10 th Place	Hidden	Hidden	9	8	8.5	