Compilation of Excellent Spatial Abilities (CELESTIAL)

# **Contest: Compilation of Excellent Spatial Abilities (CELESTIAL)**

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

# **Participants: 20**

**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. 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:

(

?

V

?

2. Complete the series:

/////

3. Complete the series:



)

#### 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:

)(:(:: $\diamond$ :?

8. Complete the analogy:

9. Complete the analogy:

\*\* \* \*\*\*\* \*0\*X \*0\*\* : .\*0\* :: \*\*\*X \*\*\*\* \*\*\* \*\*\* \*0\*\*

#### IV. Odd-One-Out

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

OX*	0	Х	*X0
Х	Х	0	Х
0	OX*	OX*	0
A	В	С	D

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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:

/	\	-	1	-1	~	т	Z	W	N	E
A	В	С	D	E	F	G	Н	I	J	К

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

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<u>}</u> (0)		00			))o(
А	В	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:

1	1	(		)	E.
А	В	С	D	E	F

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

	^		*
u		and a	&
%		-	12.5
;			\$

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)?

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

### Final Scoreboard (June 19, 2020)

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