

**Contest: Analytical Reasoning Test (ART)**

**April 1, 2021 – June 19, 2021 11:59pm ET**

**Participants: 12**

**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.

**Analytical Reasoning Test (ART)**

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:

/o w/ \v |w  
v| x\  
? 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:

%	#%	#
w	vW	v
/	?	\

**III. Analogies**

7. Complete the analogy:

' is to '' as : is to ?

8. Complete the analogy:

) ( : ( :: / \ : ?

9. Complete the analogy:

[ : [\ :: / : ?

**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, D, E, F, or G) of the item that is different from the others:



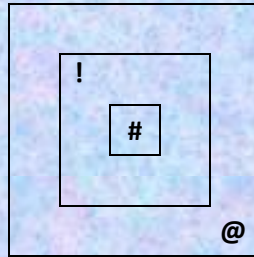
A                  B                  C                  D                  E                  F                  G

12. 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

**V. Problem Solving**

13. State the order that the following squares were put on top of each other:



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

{                  {}                  {{{}                  {{{}}                  {{{}}}                  {{{{}}}  
A                  B                  C                  D                  E                  F

15. 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)?



### Final Scoreboard (June 19, 2021)

Ranking	Name	Country	1 <sup>st</sup> Attempt	2 <sup>nd</sup> Attempt	Mean Score	Prize
<b>Winner</b>	Tiberiu Sammak	Romania	15	N/A	15	Free test submission and free society membership until July 31, 2021.
<b>2<sup>nd</sup> Place</b>	Javier Hilario	Spain	14	14	14	Free test submission until July 15, 2021.
	Jo Christopher M. Resquites	Philippines	14	N/A		
<b>3<sup>rd</sup> Place</b>	Jim Lorrimore	England	13	14	13.5	½-off test submission until June 30, 2021.
<b>4<sup>th</sup> Place</b>	Anfinn Bjartalíð	Faroe Islands	13	N/A	13	Secret Prize: given to all participants
	Anthony Sepulveda	USA				
<b>5<sup>th</sup> Place</b>	Susumu Ota	Japan	13	12	12.5	
<b>6<sup>th</sup> Place</b>	Mohammed Benazzi	Spain	11	13	12	
	Nobuo Yamashita	Japan	12	N/A		
<b>7<sup>th</sup> Place</b>	Enoch Kwak	Korea	11	N/A	11	
	Göran Åhlander	Sweden				
<b>8<sup>th</sup> Place</b>	Andrius Jodinskas	Wales	10	9	9.5	