Contest: Intense Gradient Instrument of Reasoning (IGNITER)

January 1, 2020 – December 31, 2020 11:59pm ET

Participants: 22

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.

Intense Gradient Instrument of Reasoning (IGNITER)

Attempt all 5 sections. The Psi section will be scored separately from the IQ section. IQ section: raw score out of 32. Psi section: raw score out of 8.

I.   Logical

1. Complete the series:

    ```
    #***#        #***#           ?            #****#        #***#
    ```
2. Complete the series:

    ```
    #****      *****      *****      *****
    *****      *#***      *****      *****      ?
    *****      *****      **#**      *****
    *****      *****      *****      ***#*
    *****      *****      *****      *****
    ```
3. Find the missing element in this matrix:

    ```
    &#              ($
    #&              ?
    ```
4. Find the missing element in this matrix:

    ```
    @]-             -@]             ]-@
    *&>             ?               &>*
    ~./             /~.             ./~
    ```
5. Complete the analogy:

    ```
    ###*#*  :  ***#*#  ::  **##**  :  ?
    ```
6. Complete the analogy:

    ```
    ****    ####     #*
    *##*  :  #**#  ::  *#  :  ?
    ****    ####     ##
    ```
7. Select the letter (A, B, C, D, or E) of the item that is different from the others:

    ```
    #*#  :  *##     *#*  :  #**     #**  :  **#     *##  :  ##*     **#  :  #**
         A              B              C              D              E
    ```
8. Problem Solving:

    One at a time, move a symbol on top of another by jumping over exactly 2 symbols each time to finish with 5 stacks of 2 (5 pairs):

    ```
                    ~     @     #     $     %     ^     &     *     +     "
    ```

    For example: A B C D, if A jumps over B and C to be on top of D or D jumps over C and B to be on top of A, A and D form a pair (AD or DA).

    List the 5 pairs (there are a few strategies to do this, but the pairs/stacks will be the same: for example, AB, CD, EF or DC, FE, BA).

    Hint: first move $ on top of a symbol, then move ^ on top of a symbol to get started. The 5 stacks cannot touch each other.

II.   Verbal

9. Complete the series:

Aconcagua	Denali	Elbrus	Everest	Kilimanjaro	Puncak Jaya	? _ _ _ _ _ _

10. Complete the series:

Second	Minute	Hour	Day	Week	Month	Year	?	Century

11. Find the missing element in this matrix:

Dark	Light
Moon	? _ _ _

12. Find the missing element in this matrix:

Elbow	Wrist
Knee	? _ _ _ _ _

13. Complete the analogy:

Beverage originating from the nineteenth century : Pepsi Cola : : Land partially surrounded by water : ? _ _ _ _ _ _ _ _ _

14. Complete the analogy:

Uncontrollable anger, children : Tantrum : : Silver-gray metal, 73 : ? _ _ _ _ _ _ _

15. Select the word that is different from the others:

hand, ball, foot

16. Problem Solving:

Find the word/name that is seen early each year (that has 1 vowel) that the following words have in common: third, walk: _ _ r _ _

III.   Numerical

17. Complete the series:

? U R O 12 9 6 3

18. Complete the series:

9   36   117   360   ?

19. Find the missing element in this matrix; only one mathematical operation is needed, not all 4 (add, subtract, multiply, divide):

242   16

544   ?

20. Find the missing element in this matrix; only one mathematical operation is needed, not all 4 (add, subtract, multiply, divide):

2	2	3	4	11
3	2	4	9	18
9	5	0	1	?
6	1	1	8	16

21. Complete the analogy:

123   567 : 444 : : 3546   7854 : ?

22. Complete the analogy:

5688 : 94 : : 1234 : ? _ _ (Use only 2 mathematical operations to find the answer, not all 4: add, subtract, multiply, divide)

23. Select the number that is different from the others:

48, 22, 10, 88, 12, 18, 40

24. Problem Solving:

State how the following rounded numbers relate with 1 short word - do not write an explanation: 1.7725 and 9.8696

IV.   Spatial

25. Complete the series. This item can be solved with your keyboard – drawing software is not required:

∨|∧ |

                        |∧   ∧

          ∨| ∨∧

                   ?

26. Complete the series. This item can be solved with your keyboard – drawing software is not required:

o-o

          ?

                   oo-oo

     o--o

27. Find the missing element in this matrix. This item can be solved with your keyboard – drawing software is not required:

V   SS

s   ?

28. Find the missing element in this matrix. This item can be solved with your keyboard – drawing software is not required:

$ ~~   !!!

!! $$$ ~

~~~   ? $$

29. Complete the analogy. This item can be solved with your keyboard – drawing software is not required:

O : o :: C : ?

30. Complete the analogy. This item can be solved with your keyboard – drawing software is not required.
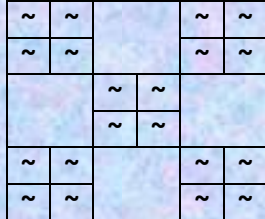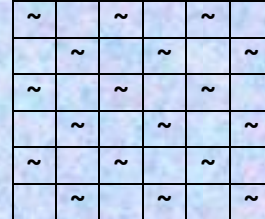
```
          #
        # #
A  :  #####  ::  L  :  ?  It must fit within a 5x5 space (rows by columns) and contain 9 of the following symbol: #.
     #      #
    #        #
```

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

r   y   u   n   ;   c   \
A   B   C   D   E   F   G

32. Problem Solving:

Each of the following big 4 squares have small empty squares that are clear. Three of the 4 big squares are placed on top of each other so that there are no empty squares; looking at this final big square, it will be observed that all 36 small squares are filled with the following: ~. What are the 3 big squares? List the letters of the 3 big squares.

A   B   C   D

V.   Psi – Through psychic means, select one term from each of the following:

33. A   I

34. B   V

35. E   X

36. F   L

37. G   C

38. H   D

39. J   M

40. In this psi section, not including this item, how many items did you answer correctly?

Final Scoreboard (December 31, 2020)

Ranking	Name	Country	1st Attempt (IQ+Psi)	2nd Attempt (IQ+Psi)	Total Mean Score	Prize
Winner	Maximilian-Andrei Druță	Romania	37 (31+6)	38 (32+6)	37.5 (31.5+4)	Three free test submissions and two free society memberships until February 20, 2021.
2nd Place	Nitish Joshi	India	37 (31+6)	N/A	37 (31+6)	Two free test submissions and one free society membership until February 10, 2021.
3rd Place	Jewoong Moon	South Korea	36 (31+5)	N/A	36 (31+5)	Free test submission and ½-off society membership until January 31, 2021.
4th Place	Luca Fiorani Chris McLaren	Italy South Africa	35 (29+6) 31 (28+3)	36 (31+5) 40 (32+8)	35.5 (30+5.5)	½-off test submission and ½-off society membership until January 20, 2021.
5th Place	Jim Lorrimore Daniel Hilton	England UK	35 (30+5)	N/A	35 (30+5)	½-off test submission until January 10, 2021.
6th Place	Hidden Rickard Sagirbey	Hidden Sweden	34 (28+6) 34 (29+5)	N/A	34 (28+6) 34 (29+5)	Secret Prize: given to all participants
7th Place	Göran Ählander	Sweden	32 (30+2)	35 (29+6)	33.5 (29.5+4)	
8th Place	Tiberiu Sammak	Romania	33 (32+1)	N/A	33 (32+1)	
9th Place	Javier Hilario	Spain	31 (27+4)	33 (28+5)	32 (27.5+4.5)	
10th Place	Andrew Hayles James Gordon Hidden David Quint	USA USA Hidden USA	31 (29+2) 29 (27+2) 31 (26+5) 31 (26+5)	N/A 33 (31+2) N/A N/A	31 (29+2) 31 (29+2) 31 (26+5) 31 (26+5)	
11th Place	Andrius Jodinskas	Wales	30 (24+6)	31 (26+5)	30.5 (25+5.5)	
12th Place	Huiquan Liu Pierre Zakia	China France	29 (27+2) 29 (25+4)	N/A	29 (27+2) 29 (25+4)	
13th Place	Alexandre Alves Duran	Brazil	28 (25+3)	28 (25+3)	28 (25+3)	
14th Place	Hidden	Hidden	26 (21+5)	N/A	26 (21+5)	
15th Place	Vincent van der Weide	Netherlands	25 (23+2)	N/A	25 (23+2)	

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