

Contest: Mental Examination of Reasoning (METEOR)

January 1, 2019 – December 31, 2019 11:59pm ET

Participants: 14

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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.

Mental Examination of Reasoning (METEOR)

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, or C) of the item that is different from the others:

: #* *# : *# *# : **
 A B C

8. Problem Solving:

For a weekend project, Hank designed a system to control 4 computer monitors sitting on a desk with a keyboard; 4 keys are used:

Esc key controls the power of monitors 1 and 2

Tab key controls the power of monitors 2 and 4

Alt key controls the power of monitors 1 and 3

Del key controls the power of monitors 3 and 4

In this order: Del, Tab, Alt, and Esc were pressed on the main keyboard to change the initial state of the monitors to the final state:

| Initial state | | | | Final state | | | |
|---------------|----|----|----|-------------|-----|----|-----|
| monitor: 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| display: on | on | on | on | on | off | on | off |

After looking at the final state of the monitors, he noticed that one of the keys is not working. Which key is not working?

II. Verbal

9. Complete the series:

Ethos Logos ?

10. Complete the series:

? Decay Sustain Release

11. Find the missing element in this matrix:

| | |
|----------|-------------|
| Merchant | Employer |
| Boycott | ? _ _ _ k _ |

12. Find the missing element in this matrix:

| | | |
|---------|-------|---------|
| Sixty | Seven | Twelve |
| Minutes | Days | Months |
| Hour | Week | ? _____ |

13. Complete the analogy:

Condiment and Band : Mayonnaise :: Clothing and Dance : ? _____ n _____

14. Complete the analogy:

Swiss Confederation : Switzerland :: Kingdom of eSwatini : ? _____

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

dividend, divisor, quotient

16. Problem Solving:

For the word *SILVER*, rearrange some of the letters to mean the following: cut into really small pieces: _____

III. Numerical

17. Complete the series:

2 7 22 67 202 ?

18. Complete the series:

5793 3579 9357 ?

19. Find the missing element in this matrix; two of the mathematical operations are needed, not all 4 (add, subtract, multiply, divide):

| | |
|-------|------|
| 34569 | 1220 |
| 53276 | ? |

20. Find the missing element in this matrix; two of the mathematical operations are needed, not all 4 (add, subtract, multiply, divide):

| | | |
|----|----|----|
| 31 | 27 | 99 |
| 12 | ? | 65 |
| 41 | 16 | 88 |

21. Complete the analogy:

3.14 : 36.3378 :: 2.718 : ? _____ (Answer is rounded; a calculator is required)

22. Complete the analogy:

7 98 : 14 :: 143 1001 : ?

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

5432, 6543, 8765, 9870, 7654

24. Problem Solving:

Find the missing value based on the following:

1# = 0

2# = 3

3# = 26

5# = ?

7# = 823542

8# = 16777215

9# = 387420488

10# = 9999999999

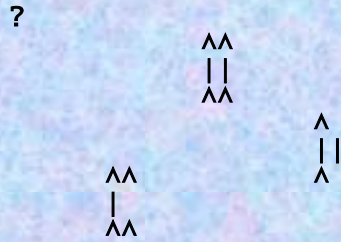
12# = 8916100448255

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:



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



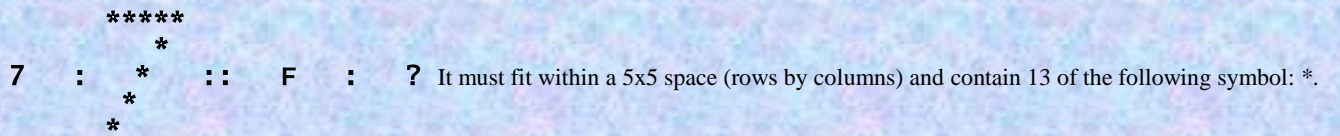
28. Find the missing element in this matrix. This item can be solved with your keyboard – drawing software is not required:



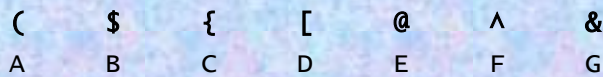
29. Complete the analogy. This item can be solved with your keyboard – drawing software is not required:



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



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



32. Problem Solving:

Rube cut a large red cube into 64 perfect cubes of the same size and weight. How many cubes have no sides with the color red?

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

- 33. 0 l
- 34. y n
- 35. t f
- 36. s g
- 37. b w
- 38. ^ v
- 39. < >

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

Final Scoreboard (December 31, 2019)

| Ranking | Name | Country | 1 st Attempt (IQ+Psi) | 2 nd Attempt (IQ+Psi) | Total Mean Score | Prize |
|-----------------------------|--------------------------------|-------------------|-------------------------------------|-------------------------------------|---------------------|---|
| Winner | Tiberiu Sammak | Romania | 33 (31+2) | 38 (32+6) | 35.5 (31.5+4) | Three free test submissions and two free society memberships until February 20, 2020. |
| 2nd Place | Andrew Hayles Jim Lorrimore | USA England | 35 (30+5) | N/A | 35 (30+5) | Two free test submissions and one free society membership until February 10, 2020. |
| 3rd Place | Huiquan Liu | China | 33 (29+4) | N/A | 33 (29+4) | Free test submission and ½-off society membership until January 31, 2020. |
| 4th Place | Göran Åhlander | Sweden | 32 (28+4) | 33 (29+4) | 32.5 (28.5+4) | ½-off test submission and ½-off society membership until January 20, 2020 |
| 5th Place | Pierre Zakia | France | 32 (29+3) | N/A | 32 (29+3) | ½-off test submission until January 10, 2020. |
| 6 th Place | Hidden Nedeljko Djilas | Hidden Croatia | 29 (25+4) | N/A | 29 (25+4) | Secret Prize: given to all participants |
| 7 th Place | Anthony Sepulveda | USA | 28 (23+5) | N/A | 28 (23+5) | |
| | Nitish Joshi | India | 28 (23+5) | | 28 (23+5) | |
| | Jewoong Moon | South Korea | 28 (26+2) | | 28 (26+2) | |
| 8 th Place | Tonny Sellén | Sweden | 28 (23+5) | 26 (23+3) | 27 (23+4) | |
| | Joseph Hayes | USA | 27 (25+2) | N/A | 27 (25+2) | |
| 9 th Place | Andrius Jodinskas | Wales | 23 (20+3) | 24 (20+4) | 23.5 (20+3.5) | |