

Contest: Spectacular Reasoning Assessment (SPECTRA)

January 1, 2018 – December 31, 2018 11:59pm ET

Participants: 17

Test Designer: [James Dorsey](#)

Table of Contents

Topic	Page
Contest Information	3
Spectacular Reasoning Assessment (SPECTRA).....	3
Final Scoreboard (December 31, 2018).....	6

Contest Information

Cheating: Do not discuss answers/hints. *No time limit.* *Two attempts* and *reference aids* are allowed. *No penalty* for guesses/wrong answers.

Spectacular Reasoning Assessment (SPECTRA)

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:

Going into a large department store, I went into four aisles, each with a unique alphanumeric code, to find four items.

The first aisle I went into was 1K3I7U1 for school supplies. Next, I went into aisle 3I7G1B2 for socks, then aisle 7G1D9Z3 for shoes.

Logically, which of the following aisles did I go into next for shirts before going to the checkout line:

2K1Z2F3, 4A5X8F1, 8H2E0A4, 9W0E1L2, 1D9Q1C4, 0S5X6V1, 2B4H0J1, 6N2K7D3, 7O1C3M1, 3Z5Y7X2, or 9G1D9Z4

II. Verbal

9. Complete the series:

Yaw Roll ?

10. Complete the series:

Arctic Atlantic Indian Pacific ?

11. Find the missing element in this matrix:

Poem	Book
?_ _ _ _ z _	Chapter

12. Find the missing element in this matrix:

Wire	Bread
Cable	?_ _ _ _ u _

13. Complete the analogy:

Operate : Surgeon :: Grow : ?_ _ _ _ _ n

14. Complete the analogy:

Unusual kind of magic : Voodoo :: Unusual column of rock : ? _____

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

dad, deed, doom, dud

16. Problem Solving:

For the word *Divide*, replace 1 letter for something celestial; keep the letters in order after replacement: _____

III. Numerical

17. Complete the series:

22 43 85 169 337 ?

18. Complete the series:

1 12 358 ? 34558

19. Find the missing element in this matrix:

12345	168
49684	?

20. Find the missing element in this matrix:

7	1	0	7
5	2	2	5
3	3	2	7
2	4	1	?

21. Complete the analogy:

1 2 : 3 :: 4 5 8 17 : ?

22. Complete the analogy:

5 2 3 : 30 :: 35 7 8 9 11 : ?

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

12678, 14579, 13456, 12589, 13567, 14578, 10456, 15679, 16789, 13789

24. Problem Solving:

At a charity event, a total of 4120 shoes were collected from four companies (A, B, C, D). Company A donated the most shoes.

Company A exceeded Company B by 1200 shoes, Company C by 540 shoes, and Company D by 360 shoes.

How many shoes did Company B donate?

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:

<pre> ----- * *----- </pre>	<pre> #===O - \ .===X </pre>
<pre> -----* * ----- </pre>	?

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:

o	o	o
?	---	---
		

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.

T	LLLLL	E	E
T	L	E	E
T	: L	:: EEEEE	: ?
T	L	E	E
TTTTT	L	E	E

The answer must contain 17 of a specific character (letter, number, or symbol).

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

{f → f}	{≠ → ≠}	{≈ → ≈}	{÷ → ÷}	{☆ → ☆}	{/ → /}	{- → -}
A	B	C	D	E	F	G

32. Problem Solving:

State the maximum amount of pieces that will result from a large cube of clay with 4-foot sides being cut in the following way:

One cut is initially made, then four cuts are made in a different direction, and finally nine cuts are made on the cube in a completely different direction from the previous cuts. Cuts are never made diagonally and the pieces are never moved.

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

33. # @
34. {*} !\$
35. +(-(
36. ~ = ~
37. < >
38. ^%* %^*
39. #- \$&

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

Final Scoreboard (December 31, 2018)

Ranking	Name	Country	1 st Attempt (IQ+Psi)	2 nd Attempt (IQ+Psi)	Total Mean Score	Prize
Winner	Liam Milliken	USA	37 (32+5)	N/A	37 (32+5)	Three free test submissions and two free society memberships until March 31, 2019.
2nd Place	Tim Roberts	Australia	34 (31+3)	N/A	34 (31+3)	Two free test submissions and one free society membership until March 15, 2019.
3rd Place	Daniel Hilton	England	33 (30+3)	N/A	33 (30+3)	Free test submission and ½-off society membership until March 15, 2019.
4th Place	Andrew Hayles	USA	31 (26+5)	N/A	31 (26+5)	½-off test submission and ½-off society membership until February 28, 2019
	Greg Cronau	USA	31 (30+1)		31 (30+1)	
5th Place	Konstantinos Ntalachanis	Greece	30 (26+4)	N/A	30 (26+4)	½-off test submission until February 28, 2019.
	Tiberiu Sammak	Romania	30 (28+2)		30 (28+2)	
	Joseph Hayes	USA	30 (25+5)		30 (25+5)	
6th Place	Jim Lorrimore	England	26 (23+3)	33 (28+5)	29.5 (25.5+4)	Secret Prize: given to all participants
7th Place	Nobuo Yamashita	Japan	29 (26+3)	N/A	29 (26+3)	
8th Place	Patrick Liljegren	Sweden	28 (24+4)	N/A	28 (24+4)	
9th Place	José Enrique Benlloch Izquierdo	Spain	26 (23+3)	N/A	26 (23+3)	
	Jawdat Wehbe Wehbe	Venezuela	28 (25+3)	24 (21+3)	26 (23+3)	
	Göran Åhlander	Sweden	26 (24+2)	N/A	26 (24+2)	
10th Place	Anthony Brown	USA	23 (20+3)	26 (22+4)	24.5 (21+3.5)	
11th Place	Anfinn Bjartalíð	Faroe Islands	24 (19+5)	N/A	24 (19+5)	
12th Place	Tonny Sellén	Sweden	24 (21+3)	22 (19+3)	23 (20+3)	