

Spatial Relations Latitude (SPIRAL)

Released: April 1, 2022

Norm: Preliminary Norm II (20 testees)

Fee: 1st Attempt (Free)|2nd Attempt (\$5)

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Test Information

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

Spatial Relations Latitude (SPIRAL)

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 O o O ?

II. Matrices

4. Find the missing element in this matrix:

]	?
=	==

5. Find the missing row in this matrix:

!	!	1	!	1	1
1	1	!	1	1	!
?					
1	1	!	1	1	!

6. Find the missing element in this matrix (unlike the others, you can count on spending a lot of time trying to solve this matrix item):

%	*	@
%	*	%
*	@	*
*	@	%
%	@	?
*	%	@
@	%	*
@	@	@
*	%	%

III. Analogies

7. Complete the analogy:

6 : 9 :: p : ?

8. Complete the analogy:

v : ∇ :: 7 : ?

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:

Q	X	D
A	B	C

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

I	N	Z	U
A	B	C	D

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

)		[+	~
A	B	C	D	E

V. Problem Solving

Find where the missing line needs to be in order to complete the pattern for items 13, 14, and 15 (the items are individually colored)

		Ex	13	14	15			
Y	3							
Y	2							
Y	1							
		1	2	3	4	5	6	7
		X	X	X	X	X	X	X

Write coordinates going from left to right or top (corner) to bottom (corner). The missing line could be vertical, horizontal, or diagonal (each diagonal line is to be viewed as one continuous line connecting one corner of the bolded square to the other corner).

For example, imagine the following scenarios of missing lines for the smallest square in the example (Ex):

- If only the bottom horizontal line is missing, complete it with: Left (X, Y) = (1, 2.5) and Right (X, Y) = (1.5, 2.5)
- If only the right vertical line is missing, complete it with: Top (X, Y) = (1.5, 3) and Bottom (X, Y) = (1.5, 2.5)
- If only the \ diagonal (top left to bottom right) is missing, complete it with: Top corner (X, Y) = (1, 3) and Bottom corner (X, Y) = (1.5, 2.5)
- If only the / diagonal (top right to bottom left) is missing, complete it with: Top corner (X, Y) = (1.5, 3) and Bottom corner (X, Y) = (1, 2.5)

Please review the above examples before attempting the following items to understand the correct format for answering them.

13. Write the coordinates for item 13 going from left to right or top (corner) to bottom (corner) in the correct format:

Left or Top (corner) (X, Y) = (?, ?) **and** Right or Bottom (corner) (X, Y) = (?, ?)

14. Write the coordinates for item 14 going from left to right or top (corner) to bottom (corner) in the correct format:

Left or Top (corner) (X, Y) = (?, ?) **and** Right or Bottom (corner) (X, Y) = (?, ?)

15. Write the coordinates for item 15 going from left to right or top (corner) to bottom (corner) in the correct format:

Left or Top (corner) (X, Y) = (?, ?) **and** Right or Bottom (corner) (X, Y) = (?, ?)

Submission Information:

E-mail OpalQuestGroup@gmail.com the following information: **Full Name, Country, Age, Sex**, a clear scan of your **Photo ID** (State/Country ID, Driver's License, Passport, etc.) showing only your full name, age/birthdate, and country

Prior scores on IQ tests (if any):

Test Name|IQ(raw score if IQ is unknown)|SD (15/16/24)|Attempt(1st, 2nd, ...)|Year Taken|Test's website (if known). For example,

LogiNum |160 |SD 15 |3rd |2000 |http://www.loginum.com

NumVerb |164 |SD 16 |1st |1992

The NLogi |9 (raw score) |SD unknown |2nd |1987

Attempt (1st or 2nd time taking this test)

Your Solutions (For example):

1. 4
2. Circle
3. xox

Make sure you keep a copy of your solutions in case some of the best items appear in a future test; I will forward your email with them for \$1.

Norming and Scoring Fee System	Tests composed of new items		Tests composed of over 50% of previously used items/multiple choice items	
Norming Stage (# of Testees)	1 st Attempt	2 nd Attempt	1 st Attempt	2 nd Attempt
N/A (<5) Estimate (5)	Free	\$5	\$5	\$10
<u>Preliminary Norms I II (10 20)</u>	<u>Free</u>	<u>\$5</u>	\$5	\$10
First Norm (30)	\$5	\$10	\$10	\$15
Second Norm (60)	\$10	\$15	\$15	\$20
Third Norm (90)	\$15	\$20	\$20	\$25
Final Norm (120)	\$20	\$25	\$25	\$30

Bolded and underlined: norming stage and current fees <http://www.pavpal.me/OpalQuestGroup> to pay scoring fee (if any)

Score Report Example:

Score Report: SPIRAL	
Type: Spatial	
Items: 15	
Candidate: Jane Doe	
Raw Score: 1	
IQ: 80 (s.d. = 15)	
Percentile: 9%	
Attempt: First	
Date: April 1, 2022	
Norm: First (based on 30 testees)	
Scorer: <i>James Dorsey</i>	
Verification code: JD-4.1.2022-0001A	
<small>Opal Quest Group OpalQuestGroup@gmail.com OpalQuestGroup.com</small>	

Norming (January 2023)/Scoreboard

Norm (Rank Equation): Prelim. Norm II (20 testees) Based on 1st Attempts: **Raw Median:** 11 **Mean:** 11.17 σ : 1.97 **Split-Half Reliability:** 0.64

Correlations with other tests:	Correlation between age and raw score: N/A	Estimated minimum g loading: N/A	Pairs (≥ 3)	Correlation
Numerus Light			3	1
Mathema			3	0.99
Rhyming Riddles			7	0.77
Lux25			3	0.76
METEOR			11	0.70
IGNITER			12	0.68
ASMuDi			10	0.58
Replacement Riddles			11	0.49
CELESTIAL			13	0.48
Reduction Riddles			9	0.46
Alphabet			15	0.41
FREE Fall			5	0.40
Asterix			4	0.40
OASIS			15	0.35
ILLUSION			16	0.32
Figure			9	0.28
COSMIC			18	0.20
SPECTRA			10	0.18
Hieroglyphica			3	0.10
Warp			4	-0.09
MultDiv			8	-0.14
LSHR Light			6	-0.17
PatNum			13	-0.23
WIT			5	-0.24
AdSub			13	-0.30
Lexiq			5	-0.55
Tests with 2 pairs: Register, Numerus Classic, SLSE I, Gliaweb Riddled Intelligence Test – Revision 2011, MRI-30R, Test for Genius – Revision 2016, Mach, PIGS of the 3 rd degree, Numericore, Einplex, GIFT Verbal, Numerus, FREE Fall Pt. 2, EMC-30R			28	0.12
For privacy, tests with only 1 score are not including on this list.				

Norm: Raw	IQ (SD 15)	Frequency (1st 2nd Attempts)	Scoreboard: Testees: 23 (1st, 2nd Attempts)
1	<70	0 0	X, X
2	<70	0 0	X, X
3	<70	0 0	X, X
4	<70	0 0	X, X
5	<70	0 0	X, X
6	<70	0 0	X, X
7	80	0 1	X, Hidden
8	110	3 0	Hidden2, Hidden3, Hidden7, X
9	123	2 0	Hidden, Hidden4, X
10	131	4 0	Lukáš Puškáš, Enoch Kwak, Hidden6, Hidden8, X
11	142	3 2	Göran Ahlander, Niels Ellevang, Jewoong Moon, Mohammed Benazzi, Tiberiu Sammak
12	146	5 2	Jim Lorrimore, Susumu Ota, Andrew Hayles, Hidden5, Ivan Veljačić, Marco Falchi, Jim Lorrimore
13	156	3 3	Mohammed Benazzi, Tiberiu Sammak, Marco Falchi, Nobuo Yamashita, Susumu Ota, Hidden5
14	161	2 0	Nobuo Yamashita, King Fuei Lee, X
15	166	1 0	Jo Christopher M. Resquites, X