

**X's and O's**

**(for Black & White Printers)**

**Released: September 9, 2019**

**Please see the color version for the Norm**

**Please see the color version for the Fee**

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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.

### X's and O's

Logical test. Attempt all 5 sections. Raw score out of 50.

#### I. Sequences

1. Complete the sequence:

XX00	00XX	0000	0000	XX00	
XX00	00XX	0000	0000	XX00	
0000	0000	00XX	XX00	0000	?
0000	0000	00XX	XX00	0000	

2. Complete the sequence:

X000		XXXX	XXXX	XXXX	0000
0000	?	OXXO	XXXX	XXXX	0000
OX00		OXXO	XXXX	OXXO	0000
0000		0000	X00X	OXXO	OXXO

3. Complete the sequence:

X000	X0XX	XXOX	XXXO	OXXX	
OXXX	OX00	XXOX	XXXO	OXXX	?
OXXX	X0XX	XXOX	000X	X000	
OXXX	X0XX	00XO	XXXO	OXXX	

4. Complete the sequence:

XOXO	XOXO	XOXO	XOXO	
OXOX	OXOX	OXOX	00XO	?
XOXO	XOXO	X00X	XXXO	
OXOX	OX00	OXXX	OX00	

5. Complete the sequence:

XXXX	XXXO		XOXO	XXXX
X00X	OXXX	?	XXXX	X00X
X00X	OXOX		XXOX	X00X
XXXX	XXXX		X0XX	XXXX

6. Complete the sequence:

XXXX	0000	00XO	00XO	
XXXX	XXXX	XXOX	00XO	?
XXXX	XXXX	XXOX	XXOX	
XXXX	XXXX	XXOX	XXOX	

7. Complete the sequence:

0000	XXXX	0000		XXXX	XXXX
0000	XXOX	0000	?	X000	X00X
X000	XXXX	0000		X000	X00X
XXXX	XXXX	0000		XXXX	XXXX

8. Complete the sequence:

X000	OXXO	OXXO	000X	0000	
X000	OX00	00XO	000X	X00X	?
OX00	X000	000X	OXXO	OX00	
00XX	OX00	0000	OX00	00XO	

9. Complete the sequence:

XX00	OXXO		OXXO	XX00	OXXO
OXXO	00XX	?	00XX	OXXO	00XX
00XX	X00X		X00X	00XX	X00X
000X	X000		XX00	X00X	XX00

10. Complete the sequence:

XXOX	00XO		000X	XXOX	00XO
XXOX	000X	?	00XO	XXOX	000X
000X	OX00		X000	000X	OX00
000X	X000		OX00	000X	X000

**II. Pick the Pair**

11. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

XX00	XOXO	X00X	OXOX	XXXX
XX00	XOXO	X00X	OXOX	0000
XX00	XOXO	X00X	OXOX	XXXX
XX00	XOXO	X00X	OXOX	0000
A	B	C	D	E

12. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

XX00	OXXO	X00X	X00X	XOXO
XX00	OXXO	X00X	OXXO	OXOX
O0XX	X00X	X00X	OXXO	XOXO
O0XX	X00X	X00X	X00X	OXOX
A	B	C	D	E

13. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

XOXO	XOXO	XX00	XXXX	XXXX
XOXO	OXOX	XX00	XXXX	X00X
XOXO	XOXO	O0XX	XXXX	X00X
XOXO	OXOX	O0XX	XXXX	XXXX
A	B	C	D	E

14. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

X0XX	OXOX	XXXO	XOXO	X000
X0XX	OX00	XX00	XOXO	0000
X000	OXXX	XX00	X000	0000
XXXX	0000	XX00	XXXX	0000
A	B	C	D	E

15. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

XXXX	X000	XXXX	X000	X000
X000	X00X	0000	XX00	X000
X000	X00X	XXXO	XX00	XXXX
X000	X00X	0000	XX00	X000
A	B	C	D	E

16. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

XXXX	XX00	XX00	0000	XXXX
X00X	XX00	XX00	0000	XXXX
X00X	O0XX	XXXX	0000	XXXX
XXXX	O0XX	XXXX	0000	XXXX
A	B	C	D	E

17. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

X000	XX00	XXXO	XXXX	XXXX
0000	XX00	XOXO	X00X	X000
0000	0000	XXXO	X00X	X000
0000	0000	0000	XXXX	0000
A	B	C	D	E

18. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

OXXX	OX00	XXXO	XXXX	0000
X000	XXXX	O0XO	X00X	XXXO
XXXX	OXOX	O0XO	X00X	XXXO
X000	000X	XXXO	000X	XXXO
A	B	C	D	E

19. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

X00X	XXXX	0000	XX00	XOXO
OXXO	0000	OXXO	XX00	OXOX
OXXO	0000	OXXO	XX00	XOXO
X00X	XXXX	0000	XX00	OXOX
A	B	C	D	E

20. Select the two elements (A, B, C, D, E) that form a logical pair – in this format: *element 1, element 2* going from left to right:

XX00	X000	XXXX	OXXX	0000
XX00	0000	XXXO	OXXX	0000
00XX	00XX	XXXO	OXXX	XXXX
00XX	00XX	0000	X000	XXXX
A	B	C	D	E

### III. Odd One Out

21. Select the element (A, B, C, D, or E) that is different from the others:

XOX	XXO	OXO	OXO	XOX
OXO	XXO	XOX	XXX	OOX
XOO	000	OXO	OXO	OOX
A	B	C	D	E

22. Select the element (A, B, C, D, or E) that is different from the others:

XOO	OXX	XOO	OOX	XXO
OXX	OXO	XXO	OXO	OXO
OOX	XOO	OOX	XXO	OOX
A	B	C	D	E

23. Select the element (A, B, C, D, or E) that is different from the others:

XOX	XXX	XOX	000	XOX
OXO	XOX	XOX	XOX	XOO
XOX	XXX	XOX	000	XXX
A	B	C	D	E

24. Select the element (A, B, C, D, or E) that is different from the others:

XOX	XOX	000	OOX	000
000	XOX	000	OOX	XOX
XOX	XOX	XXX	OOX	XOX
A	B	C	D	E

25. Select the element (A, B, C, D, or E) that is different from the others:

XXX	OOX	OOX	XXO	XOX
000	XOX	XXX	XXO	XOX
XXX	XOO	XOO	XXX	XXX
A	B	C	D	E

26. Select the element (A, B, C, D, or E) that is different from the others:

0000	XX00	OX00	XXXO	XXXX
OX00	XX00	XXXO	XXXO	XXXX
0000	0000	OX00	XXXO	XXXX
0000	0000	0000	0000	XXXX
A	B	C	D	E

27. Select the element (A, B, C, D, or E) that is different from the others:

X000	X000	000X	00X0	0000
X000	X000	00X0	00X0	0000
X000	X000	OX00	00X0	0000
X000	X000	X000	00X0	XXXX
A	B	C	D	E

28. Select the element (A, B, C, D, or E) that is different from the others:

XX00	X00X	XXXX	X00X	X00X
XX00	X00X	X00X	OXXO	00XX
00XX	X00X	X00X	OXXO	OX00
00XX	X00X	XXXX	X00X	XXOX
A	B	C	D	E

29. Select the element (A, B, C, D, or E) that is different from the others:

X00X	XXXX	X000	0000	X00X
X0X0	000X	X000	XXXX	OXXO
XX00	000X	X000	XXXX	OXXO
X000	000X	XXXX	0000	X00X
A	B	C	D	E

30. Select the element (A, B, C, D, or E) that is different from the others:

XX00	XOXO	X00X	OXOX	XXXX
XX00	XOXO	X00X	OXOX	0000
XX00	XOXO	X00X	OXOX	XXXX
XX00	XOXO	X00X	OXOX	0000
A	B	C	D	E

#### IV. Analogies

31. Complete the analogy:

XXX	OOX	OXO	
OOX	:	OOX	:: OXO : ?
OOX	XXX	OXO	

32. Complete the analogy:

X00	OXO	XOX	
X00	:	OXO	:: OXO : ?
XXX	XXX	XOX	

33. Complete the analogy:

XOX	OXO	OOX	
XOX	:	XOX	:: XXX : ?
OXO	XOX	X00	

34. Complete the analogy:

XOX	X00	XXX	
XOX	:	XXX	:: OOX : ?
X00	X00	XOX	

35. Complete the analogy:

X00	XXO	OXO	
XXO	:	OXO	:: XOX : ?
OOX	OOX	XOX	

36. Complete the analogy:

XXX	000	X00	
XOX	:	OXO	:: X00 : ?
XXX	000	OXX	

37. Complete the analogy:

XXX	000	OOX	
OOX	:	OXX	:: OOX : ?
OXX	OOX	OXX	

38. Complete the analogy:

XXX	XXO	XXX	
XXO	:	X00	:: 000 : ?
X00	000	XXX	

39. Complete the analogy:

XOX	000	XXX	
OXO	:	OXO	:: XXX : ?
XOX	000	XXX	

40. Complete the analogy:

OXO	X00	XOX	
XOX	:	XXO	:: OXO : ?
OOX	X00	XOX	

**V. Matrices:**

41. Find the missing element in this matrix:

XXO	OXX	OXX
XXO	XOX	OXX
XXO	XXO	XXO
XOX	XXO	XXO
OXX	XOX	OXX
XOX	OXX	XOX
XXX	XOO	
OXX	XXX	?
OXX	OXX	

42. Find the missing element in this matrix:

XXO	OXX	OOO
XXO	OXX	OXX
OOO	OOO	OXX
OOO	XXO	OOO
XXO	XXO	XXO
XXO	OOO	XXO
OOO	OXX	
OXX	OXX	?
OXX	OOO	

43. Find the missing element in this matrix:

XXO	OXX	XXO
XXO	OXX	XXO
OOO	OOO	OOO
OOO	OOO	OOO
XXO	OXX	XXO
XXO	OXX	XXO
XXO	OXX	
XXO	OXX	?
OOO	OOO	

44. Find the missing element in this matrix. Hint: rotation:

OOOO	XXXX	OXXX
XXXX	XXXX	OXXX
XXXX	XXXX	XXXX
XXXX	XXOO	XXOO
OOOO	XXOO	OXXX
OXXX	XXXX	XXXX
XXXX	XXXX	XXXX
XXXX	XXXX	XXXX
OOOO	XOOO	
XXXX	XXXX	?
XXXX	XXXX	
XXXX	XXXX	

45. Find the missing element in this matrix. Hint: the whole is not as important as the parts composing it:

XXXX	XOXX	XOOX
XXXX	XOOO	OXOX
XXXX	XOOO	OXXO
XXXX	OXOO	XXOX
XXOO	OXOX	OXXO
OOOO	XXXX	OXXO
OXXX	OOOX	OOXO
XOOO	XXOX	OOXO
OXXO	OOOO	
XOOX	OXXX	?
XXOO	OXOX	
OXXX	OXXO	

46. Find the missing element in this matrix:

X00	XOX	X00
000	000	000
000	000	00X
00X	X00	000
0X0	0X0	0X0
000	000	X00
000	000	
000	000	?
00X	XOX	

47. Find the missing element in this matrix. Hint: 3 of a kind:

X000	X000	X0XX
X000	0X00	0XXX
X000	00X0	00X0
X000	X00X	000X
X000	X0XX	XXX0
0X00	X0XX	0000
00X0	X000	0000
000X	X000	X000
XXXX	X000	
0000	X000	?
0000	X000	
0000	X000	

48. Find the missing element in this matrix:

XXXX	00XX	XXX0
X000	XXXX	0XXX
0X00	0X00	X0XX
00X0	00X0	0X0X
000X	XXXX	00X0
X00X	X000	XXXX
0X00	0X00	0X0X
XXXX	00X0	00X0
000X	000X	
0000	X000	?
XXXX	0X00	
0X00	XXXX	

49. Find the missing element in this matrix. Hint: Lines of binary:

XXX	XOX	XXX
XX0	0X0	0XX
XOX	0X0	XOX
X00		00X
0XX	?	XX0
X00		00X
XOX	0X0	XOX
XX0	0X0	0XX
XXX	XOX	XXX

50. Find the missing element in this matrix:

X00	0XX	0XX
000	X00	000
0X0	000	00X
000	X00	00X
X0X	0X0	X0X
X00	0X0	000
0X0	000	
000	00X	?
X0X	XX0	

### Submission Information:

E-mail [OpalQuestGroup@gmail.com](mailto: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 (1 <sup>st</sup> , 2 <sup>nd</sup> , ...)	Year Taken	Test's website (if known). For example,
LogiNum	160	SD 15	3 <sup>rd</sup>	2000	http://www.loginum.com
NumVerb	164	SD 16	1 <sup>st</sup>	1992	
The NLogi	9 (raw score)	SD unknown	2 <sup>nd</sup>	1987	

Attempt (1<sup>st</sup> or 2<sup>nd</sup> 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.

**Please see the color version for the Norm and Fee.**

#### Score Report Example:

Please see the color version of **X's and O's**.

