

Printable PDF Booklet

X-Cycle Practice Sudoku

6 Puzzles Per Page | 24 Puzzles | With Answers

Every puzzle in this booklet is filtered to require X-Cycle. It is designed for solvers who want deliberate, targeted practice on paper.

DIFFICULTY

Custom / Custom

LAYOUT

6 Puzzles Per Page

TECHNIQUE

X-Cycle

CANDIDATES

Off

ANSWER KEY

Included at the end

GENERATED

Apr 12, 2026

PAPER

A4 / US Letter

You are welcome to share this booklet freely.

HINT SUPPORT

Need a logical hint? Every booklet here uses the same Puzzle IDs as [sudoku-puzzle.org](https://www.sudoku-puzzle.org). Open that site, enter your Puzzle ID in the "Start Game" dialog, and launch the solver for a clean step-by-step walkthrough. For more printable layouts and levels, visit [sudoku-printout.com](https://www.sudoku-printout.com).

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#1 (ID: #146074)

SCORE: 807

STEPS: 95

Level 10

			8			2		
	5			7	2			
			3	5				
			6					9
4	8							
		6			7	3	4	
		3			6			7
	7		9	2		8		
		8			3		6	

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, VWXYZ-Wing, Turbot Fish, 3 Strong Links, Grouped Skyscraper, Grouped 2-String Kite, XY-Chain, X-Cycle

#2 (ID: #154821)

SCORE: 734

STEPS: 85

Level 10

1								9
	7	2					4	
5		4					7	
9			5	6				2
		5	1		7	9		
	2				4			1
	8	9	4				1	
							2	
		6		8				

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, Swordfish, XY-Wing, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, X-Cycle, Unique Rectangle Type 4, BUG (Bivalue Universal Grave)

#3 (ID: #156548)

SCORE: 697

STEPS: 84

Level 10

		7			8	9		
	5	1		2	7	8		
3				9			5	7
		9						4
	7	4		5	2	3	1	9
5								
1		5		4				
4		8			5		7	

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, X-Wing, XYZ-Wing, WXYZ-Wing, Turbot Fish, XY-Chain, X-Cycle, Chute Remote Pairs, Unique Rectangle Type 4

#4 (ID: #158168)

SCORE: 708

STEPS: 88

Level 10

			9	2				
	2				7			
9			3	5	4			
3		7	2	4				
	4	5		7				3
						9		
	3				8		5	
8				3		7		9
		6	4					8

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, Grouped Skyscraper, X-Cycle

#5 (ID: #159733)

SCORE: 410

STEPS: 72

Level 10

	9	3		4	1	8		
			6	8				
				9				
	6							
		4		1	2	3		6
			4			9		
	4	6						
	2			7			9	
8	1	9				2		3

Techs: Naked Single, Hidden Single, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, Grouped 2-String Kite, X-Cycle

#6 (ID: #164852)

SCORE: 506

STEPS: 77

Level 10

	9					4		
			1	8			9	
	1	4					3	
	4	8			3			
6		1	7			3		
7		9						
			4		6		1	
			3	5	1			
			9	7				6

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, WXYZ-Wing, Skyscraper, Turbot Fish, Grouped Skyscraper, Grouped 2-String Kite, Grouped Turbot Crane, XY-Chain, X-Cycle

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#7 (ID: #179188)

SCORE: 535

STEPS: 75

Level 10

			6		2		3	
	8	6		3				7
				8				
	9	5						
		7		6		2	9	
	3			2	9			
7			4	5		9	6	
4								7
	6	9	2			8		4

Techs: Naked Single, Hidden Single, Claiming, Naked Pairs, VWXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, Grouped Turbot Crane, X-Cycle

#8 (ID: #179663)

SCORE: 888

STEPS: 97

Level 10

			2					9
	6							4
			8		1	7		
		2			9			
6				8	7			
1		9	5		2	8		7
						1	7	
5								4
9		1				5		8

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

#9 (ID: #185659)

SCORE: 506

STEPS: 77

Level 10

	7			2	1			
	4			3				
2			7					
5	1			4		2		
4			6	5				7
				1	4			
			1	7		6	8	
		7	3		8			
				4				2

Techs: Naked Single, Hidden Single, Pointing, WXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, 4 Strong Links, X-Cycle, Chute Remote Pairs

#10 (ID: #193075)

SCORE: 533

STEPS: 79

Level 10

5	3	2			8	6	9	
	7	9		3				8
6						5		
7	8				2		5	9
3								7
2					6			
					7		8	5
								4
				5		9		

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, VWXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, X-Cycle, Unique Rectangle Type 3, Unique Rectangle Type 4

#11 (ID: #196307)

SCORE: 710

STEPS: 80

Level 10

			3			8	5	1
			8		2			
				9				
	6	7					3	
	3			6			2	5
	1	5		8		7	6	
				3	9			
			6					
	9	1	2	5	7	3	8	

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, VWXYZ-Wing, Turbot Fish, 3 Strong Links, XY-Chain, X-Cycle, Chute Remote Pairs, BUG (Bivalve Universal Grave)

#12 (ID: #203185)

SCORE: 463

STEPS: 75

Level 10

	7	4						8
		6			3	7	5	
8						2		4
	5			2			7	
	4				7	8		
	1	2		5		6		
		7		8				6
				6	5			4

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Triples, XY-Wing, XYZ-Wing, VWXYZ-Wing, Skyscraper, 3 Strong Links, 4 Strong Links, Grouped Skyscraper, X-Cycle, Chute Remote Pairs

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#13 (ID: #215174)

SCORE: 461

STEPS: 76

Level 10

3	7			5	4		
			6				5
4	2			7	6	8	
	8			9		3	7
					5		4
5			7				
		8					
2			9	4			
7	9				8		

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, 3 Strong Links, Grouped 2-String Kite, X-Cycle, Unique Rectangle Type 1

#14 (ID: #217528)

SCORE: 568

STEPS: 85

Level 10

					1		
			4	9		8	7
	3		5				
		7				5	
9				1	5		6
		6		7			9
	7						
	9			6	8		1
	1				9		

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, VWXYZ-Wing, 2-String Kite, Grouped Skyscraper, Grouped Turbot Crane, XY-Chain, X-Cycle

#15 (ID: #223341)

SCORE: 610

STEPS: 85

Level 10

		3		5			7
		8	6		3		
	5	2			7		
		1				4	
8					2	6	3
						8	7
					8	1	4
	7						2
		6	1				

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Naked Triples, XYZ-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain, X-Cycle, Chute Remote Pairs

#16 (ID: #242895)

SCORE: 565

STEPS: 81

Level 10

	4			1	8		
2		1	7		9		
							2
						4	1
		6				7	8
7	8		4			9	2
				3			
1					2		
8	2			7	4		

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, XY-Chain, X-Cycle, Unique Rectangle Type 1

#17 (ID: #244107)

SCORE: 647

STEPS: 83

Level 10

		3			4		7
	7				1	6	5
							1
		5			6		4
6			7				
	8		2		5	3	6
7		1	6				
				3			
5	3	4			2		

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Turbot Fish, 3 Strong Links, 4 Strong Links, XY-Chain, X-Cycle, Chute Remote Pairs

#18 (ID: #247872)

SCORE: 557

STEPS: 81

Level 10

4							8
		2	1				
	5						
1					8	7	
6				2	5	1	
		9				6	
	4	5	9		1		
2			8			9	1
9	1				6		4

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XY-Wing, 2-String Kite, Grouped 2-String Kite, XY-Chain, X-Cycle

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#19 (ID: #250356)

SCORE: 993

STEPS: 107

Level 10

		2						
1			6			4	8	
			5	9		6		
5				4	1			3
8		3	9					2
							5	
	4				5	2		6
				3				
							3	

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XY-Wing, XYZ-Wing, WXYZ-Wing, 2-String Kite, XY-Chain, X-Cycle, Unique Rectangle Type 4

#20 (ID: #250598)

SCORE: 515

STEPS: 80

Level 10

1	8	9	2		3			
4		3						
	6							
8		6			5		2	
	9	2	8	6		3		
	5				2	9	8	
			4	8				
				3			6	2

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Naked Triples, X-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, X-Cycle, Unique Rectangle Type 3, Unique Rectangle Type 4, BUG (Bivalue Universal Grave)

#21 (ID: #254534)

SCORE: 552

STEPS: 82

Level 10

						2		
6	5			9				
				3	7		6	9
		3	8	6				
				2				8
							3	
5			3	7			8	2
7		1			8	3		
2			9	6				5

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, X-Cycle, Chute Remote Pairs

#22 (ID: #258280)

SCORE: 534

STEPS: 78

Level 10

7	3	6	8					4
4						7	1	
1	2							8
			2					
			4	5				3
	6						7	
							5	
	4		7			8	6	
	5		6	2		4	1	

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, WXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, XY-Chain, X-Cycle, Unique Rectangle Type 4

#23 (ID: #262843)

SCORE: 972

STEPS: 105

Level 10

5	9					4		
		2					9	
		8						3
2			9		8			4
7							8	6
					5			
6	3					7		
			3				5	9
		5	8	4				

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, 4 Strong Links, Grouped Skyscraper, X-Cycle

#24 (ID: #265483)

SCORE: 491

STEPS: 80

Level 10

			5	8	6			
4								
		3	2	6				
9				3				4
1		6					9	
	8		9			2		
		2			9			
	3		8			9	6	
			3	5				1

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, 4 Strong Links, X-Cycle, Chute Remote Pairs, Unique Rectangle Type 1

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#1 (ID: #146074)

3	1	7	8	6	4	2	9	5
9	5	4	1	7	2	6	8	3
8	6	2	3	5	9	4	7	1
7	3	5	6	4	8	1	2	9
4	8	9	2	3	1	7	5	6
1	2	6	5	9	7	3	4	8
2	9	3	4	8	6	5	1	7
6	7	1	9	2	5	8	3	4
5	4	8	7	1	3	9	6	2

#2 (ID: #154821)

1	3	8	7	4	6	5	2	9
6	7	2	9	5	8	4	1	3
5	9	4	3	1	2	7	8	6
9	4	1	5	6	3	8	7	2
8	6	5	1	2	7	9	3	4
3	2	7	8	9	4	6	5	1
2	8	9	4	3	5	1	6	7
4	5	3	6	7	1	2	9	8
7	1	6	2	8	9	3	4	5

#3 (ID: #156548)

6	4	7	5	3	8	9	2	1
9	5	1	4	2	7	8	3	6
3	8	2	1	9	6	4	5	7
2	6	9	3	7	1	5	8	4
8	7	4	6	5	2	3	1	9
5	1	3	9	8	4	7	6	2
1	2	5	7	4	3	6	9	8
4	9	8	2	6	5	1	7	3
7	3	6	8	1	9	2	4	5

#4 (ID: #158168)

4	7	3	9	2	1	5	8	6
5	2	1	6	8	7	3	9	4
9	6	8	3	5	4	1	7	2
3	9	7	2	4	6	8	1	5
1	4	5	8	7	9	6	2	3
6	8	2	5	1	3	9	4	7
2	3	9	7	6	8	4	5	1
8	5	4	1	3	2	7	6	9
7	1	6	4	9	5	2	3	8

#5 (ID: #159733)

2	9	3	7	4	1	8	6	5
4	5	1	6	8	3	7	2	9
6	8	7	2	9	5	4	3	1
5	6	8	9	3	7	1	4	2
9	7	4	8	1	2	3	5	6
1	3	2	4	5	6	9	8	7
7	4	6	3	2	9	5	1	8
3	2	5	1	7	8	6	9	4
8	1	9	5	6	4	2	7	3

#6 (ID: #164852)

2	9	6	5	3	7	4	8	1
3	7	5	1	8	4	6	9	2
8	1	4	2	6	9	7	3	5
5	4	8	6	1	3	9	2	7
6	2	1	7	9	5	3	4	8
7	3	9	8	4	2	1	5	6
9	8	7	4	2	6	5	1	3
4	6	2	3	5	1	8	7	9
1	5	3	9	7	8	2	6	4

#7 (ID: #179188)

9	7	4	6	1	2	5	3	8
1	8	6	9	3	5	4	7	2
5	2	3	7	8	4	6	1	9
2	9	5	1	4	7	3	8	6
8	4	7	5	6	3	2	9	1
6	3	1	8	2	9	7	4	5
7	1	2	4	5	8	9	6	3
4	5	8	3	9	6	1	2	7
3	6	9	2	7	1	8	5	4

#8 (ID: #179663)

7	1	5	2	3	4	6	8	9
2	6	8	7	9	5	3	1	4
4	9	3	8	6	1	7	2	5
8	7	2	6	1	9	4	5	3
6	5	4	3	8	7	2	9	1
1	3	9	5	4	2	8	6	7
3	4	6	9	5	8	1	7	2
5	8	7	1	2	3	9	4	6
9	2	1	4	7	6	5	3	8

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#9 (ID: #185659)

3	7	5	4	8	2	1	6	9
6	4	1	5	3	9	8	2	7
2	9	8	7	1	6	3	4	5
5	1	9	8	4	7	2	3	6
4	8	2	6	5	3	9	7	1
7	3	6	2	9	1	4	5	8
9	2	4	1	7	5	6	8	3
1	6	7	3	2	8	5	9	4
8	5	3	9	6	4	7	1	2

#10 (ID: #193075)

5	3	2	1	7	8	6	9	4
4	7	9	6	3	5	1	2	8
6	1	8	4	2	9	5	7	3
7	8	6	3	1	2	4	5	9
3	9	1	8	5	4	2	6	7
2	4	5	7	9	6	8	3	1
1	2	4	9	6	7	3	8	5
9	5	3	2	8	1	7	4	6
8	6	7	5	4	3	9	1	2

#11 (ID: #196307)

7	2	9	3	4	6	8	5	1
1	5	6	8	7	2	4	9	3
3	4	8	1	9	5	6	7	2
9	6	7	5	2	4	1	3	8
8	3	4	7	6	1	9	2	5
2	1	5	9	8	3	7	6	4
6	8	2	4	3	9	5	1	7
5	7	3	6	1	8	2	4	9
4	9	1	2	5	7	3	8	6

#12 (ID: #203185)

9	7	4	5	1	2	3	8	6
1	2	6	8	4	3	7	5	9
8	3	5	7	9	6	2	1	4
3	5	8	6	2	9	4	7	1
6	4	9	1	3	7	8	2	5
7	1	2	4	5	8	6	9	3
4	9	7	3	8	1	5	6	2
5	6	1	2	7	4	9	3	8
2	8	3	9	6	5	1	4	7

#13 (ID: #215174)

3	7	6	8	5	2	4	9	1
8	1	9	6	3	4	7	2	5
4	2	5	1	7	9	6	8	3
6	8	1	4	9	5	2	3	7
9	3	7	2	8	6	5	1	4
5	4	2	7	1	3	9	6	8
1	6	8	5	2	7	3	4	9
2	5	3	9	4	1	8	7	6
7	9	4	3	6	8	1	5	2

#14 (ID: #217528)

7	2	9	6	8	1	3	5	4
5	6	1	4	9	3	8	2	7
8	3	4	5	2	7	6	9	1
1	8	7	9	4	6	5	3	2
9	4	2	3	1	5	7	6	8
3	5	6	8	7	2	1	4	9
2	7	3	1	5	4	9	8	6
4	9	5	7	6	8	2	1	3
6	1	8	2	3	9	4	7	5

#15 (ID: #223341)

6	4	3	2	5	1	9	7	8
7	1	8	6	9	3	2	4	5
9	5	2	4	8	7	3	1	6
5	3	1	8	7	6	4	2	9
8	9	7	5	4	2	6	3	1
2	6	4	3	1	9	5	8	7
3	2	9	7	6	8	1	5	4
1	7	5	9	3	4	8	6	2
4	8	6	1	2	5	7	9	3

#16 (ID: #242895)

6	4	9	2	1	8	3	5	7
2	3	1	7	5	9	4	6	8
5	7	8	3	4	6	1	2	9
3	9	2	5	8	7	6	4	1
4	1	6	9	2	3	7	8	5
7	8	5	4	6	1	9	3	2
9	6	7	8	3	5	2	1	4
1	5	4	6	9	2	8	7	3
8	2	3	1	7	4	5	9	6

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#17 (ID: #244107)

9	1	3	5	6	8	4	2	7
4	7	2	3	9	1	6	5	8
8	5	6	4	2	7	9	3	1
3	2	5	9	1	6	8	7	4
6	4	9	7	8	3	5	1	2
1	8	7	2	4	5	3	9	6
7	9	1	6	5	4	2	8	3
2	6	8	1	3	9	7	4	5
5	3	4	8	7	2	1	6	9

#18 (ID: #247872)

4	1	7	5	6	2	3	8	9
3	9	2	1	8	7	4	5	6
8	5	6	3	4	9	2	7	1
1	2	4	6	9	8	7	3	5
6	3	8	7	2	5	1	9	4
5	7	9	4	1	3	6	2	8
7	4	5	9	3	1	8	6	2
2	6	3	8	5	4	9	1	7
9	8	1	2	7	6	5	4	3

#19 (ID: #250356)

9	6	2	1	8	4	3	7	5
1	5	7	6	3	2	4	8	9
4	3	8	5	9	7	6	2	1
5	2	9	7	4	1	8	6	3
8	7	3	9	5	6	1	4	2
6	1	4	3	2	8	9	5	7
3	4	1	8	7	5	2	9	6
2	9	5	4	6	3	7	1	8
7	8	6	2	1	9	5	3	4

#20 (ID: #250598)

1	8	9	2	7	3	6	4	5
4	7	3	9	5	6	2	1	8
2	6	5	1	4	8	7	3	9
5	3	4	7	2	1	8	9	6
8	1	6	3	9	5	4	2	7
7	9	2	8	6	4	3	5	1
3	5	7	6	1	2	9	8	4
6	2	1	4	8	9	5	7	3
9	4	8	5	3	7	1	6	2

#21 (ID: #254534)

3	1	9	6	8	4	2	5	7
6	5	7	1	9	2	8	4	3
8	2	4	5	3	7	1	6	9
4	7	3	8	6	9	5	2	1
1	6	5	4	2	3	9	7	8
9	8	2	7	1	5	6	3	4
5	9	6	3	7	1	4	8	2
7	4	1	2	5	8	3	9	6
2	3	8	9	4	6	7	1	5

#22 (ID: #258280)

7	3	6	8	1	9	5	2	4
4	8	5	3	2	6	7	1	9
1	2	9	5	4	7	6	3	8
5	9	1	2	7	3	4	8	6
2	7	8	4	6	5	1	9	3
3	6	4	1	9	8	2	7	5
6	1	2	9	8	4	3	5	7
9	4	3	7	5	1	8	6	2
8	5	7	6	3	2	9	4	1

#23 (ID: #262843)

5	9	3	1	8	2	4	6	7
1	7	2	6	4	3	8	9	5
4	6	8	5	9	7	1	2	3
2	1	6	9	3	8	5	7	4
7	5	9	4	2	1	3	8	6
3	8	4	7	6	5	9	1	2
6	3	1	2	5	9	7	4	8
8	4	7	3	1	6	2	5	9
9	2	5	8	7	4	6	3	1

#24 (ID: #265483)

2	1	7	5	4	8	6	3	9
4	6	8	7	9	3	5	2	1
5	9	3	2	6	1	4	7	8
9	7	5	6	3	2	1	8	4
1	2	6	4	8	5	3	9	7
3	8	4	9	1	7	2	5	6
6	5	2	1	7	9	8	4	3
7	3	1	8	2	4	9	6	5
8	4	9	3	5	6	7	1	2