

SUM SKYSCRAPERS

34 Handcrafted Puzzles from Beginner to Expert · Solutions Included

Alternative Names: Sum Skyline · Building Height Sums

How to Play & Rules

- Fill each row and column with building heights from 1 up to N exactly once.
- Taller buildings hide all shorter buildings behind them.
- Sum Clue Rule: A number outside the grid is the sum of the heights of all the buildings visible from that direction.
- For example, if looking down a row sees buildings of heights 2, 4, and 5, the clue outside is $2 + 4 + 5 = 11$.
- Every puzzle has exactly one unique solution discoverable through arithmetic perspective reasoning.

Every puzzle has exactly one valid solution, deducible purely through logical reasoning.

Difficulty Levels (34 Puzzles)

Stage	Grid Sizes	Puzzles
Intro	4×4	3
Easy	4×4 to 5×5	8
Medium	5×5 to 6×6	10
Hard	6×6 to 7×7	12
Expert	7×7	5

	9	4	8	7	
6	2	4	1	3	7
10	1	2	3	4	4
7	3	1	4	2	6
4	4	3	2	1	10
	4	7	6	7	

Solved Level Example

Play 100+ Levels Online with Instant Validation

Enjoy interactive play with step-by-step hints, conflict checkers, and unlimited undo on AZTest.

<https://aztest.org/puzzles/sum-skyscrapers/>

Discover 25+ free logic games on AZTest: Slitherlink, Nurikabe, Calcudoku, Masyu, Galaxies, Hitori, Tents, and more.

HOW TO PLAY SUM SKYSCRAPERS

Core Rules, Mechanics & Step-by-Step Deductive Strategies

Basic Game Premise & Rules

- Fill each row and column with building heights from 1 up to N exactly once.
- Taller buildings hide all shorter buildings behind them.
- Sum Clue Rule: A number outside the grid is the sum of the heights of all the buildings visible from that direction.
- For example, if looking down a row sees buildings of heights 2, 4, and 5, the clue outside is $2 + 4 + 5 = 11$.
- Every puzzle has exactly one unique solution discoverable through arithmetic perspective reasoning.

Starting Board (Unsolved)

	9	4	8	7	
6					7
10					4
7					6
4					10
	4	7	6	7	

Initial clues, boundary constraints, and starting state

Completed Solution

	9	4	8	7	
6	2	4	1	3	7
10	1	2	3	4	4
7	3	1	4	2	6
4	4	3	2	1	10
	4	7	6	7	

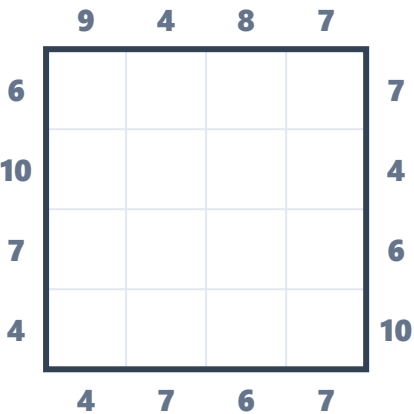
All clues and global constraints satisfied without contradictions

Key Deductive Strategies

Every puzzle has exactly one unique solution. Start by identifying forced moves from extreme clue values. Never guess: if a cell cannot be determined yet, look elsewhere on the board for intersecting constraints.

Puzzle #1EASY

4 × 4

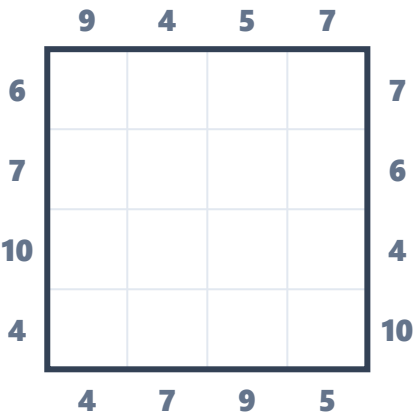


Play online: [sum-skyscrapers/#5](#)

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Puzzle #2EASY

4 × 4

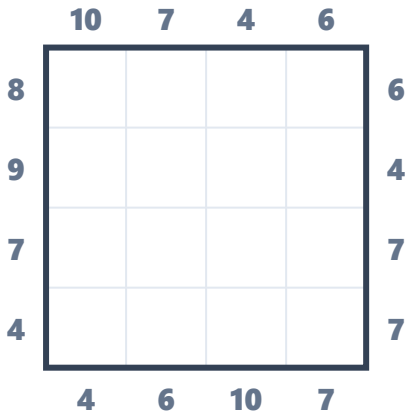


Play online: [sum-skyscrapers/#6](#)

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Puzzle #3EASY

4 × 4

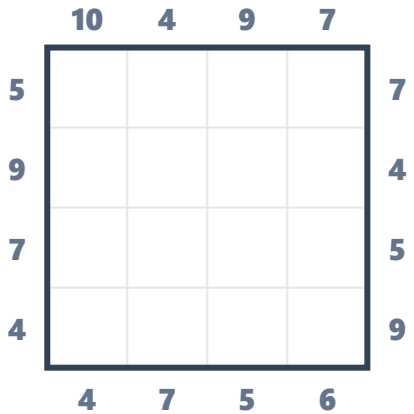


Play online: [sum-skyscrapers/#7](#)

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Puzzle #4EASY

4 × 4



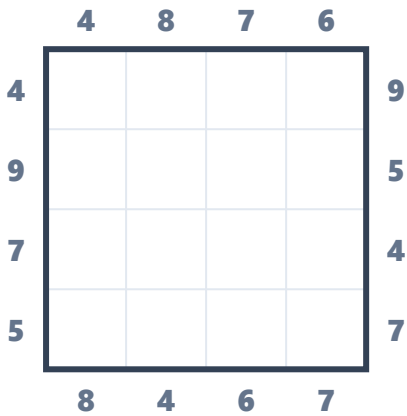
Play online: [sum-skyscrapers/#8](#)

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Puzzle #5

EASY

4 × 4



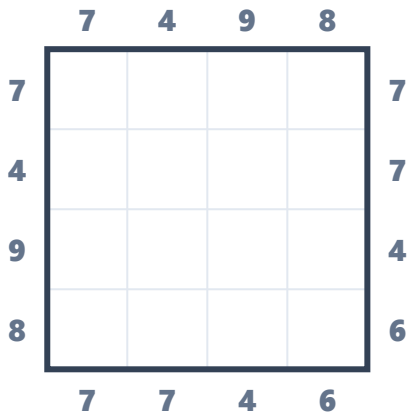
Play online: [sum-skyscrapers/#9](#)

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Puzzle #6

EASY

4 × 4



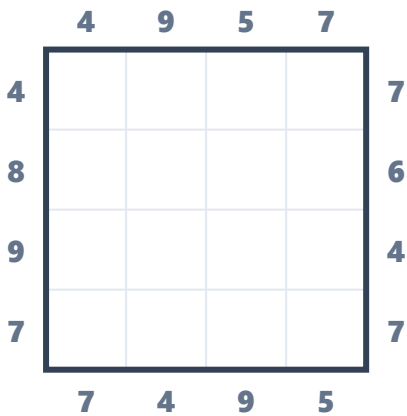
Play online: [sum-skyscrapers/#10](#)

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Puzzle #7

EASY

4 × 4



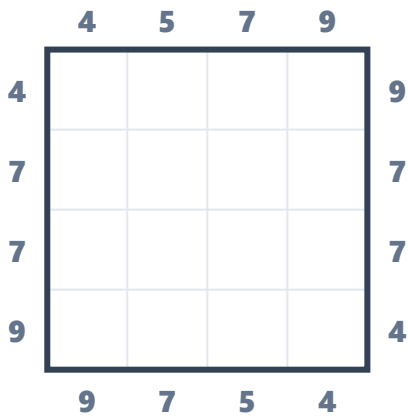
Play online: [sum-skyscrapers/#11](#)

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Puzzle #8

EASY

4 × 4



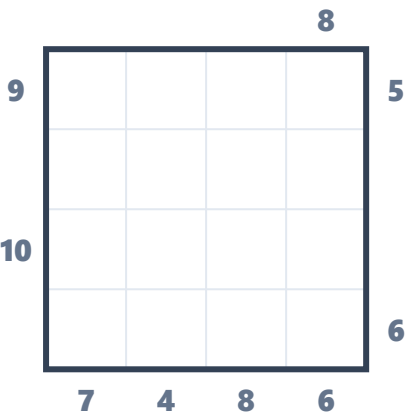
Play online: [sum-skyscrapers/#12](#)

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Puzzle #9

MEDIUM

4 × 4



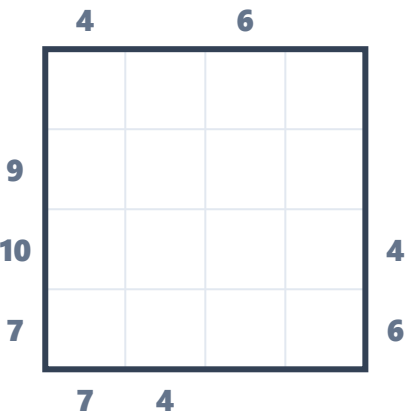
Play online: [sum-skyscrapers/#13](#)

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Puzzle #10

MEDIUM

4 × 4



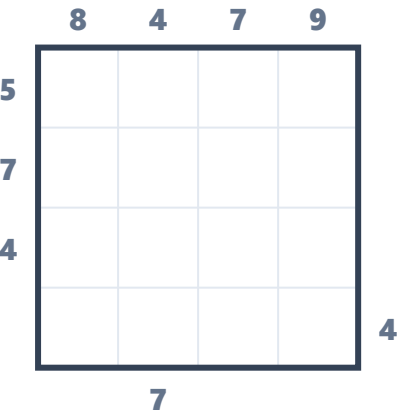
Play online: [sum-skyscrapers/#14](#)

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Puzzle #11

MEDIUM

4 × 4



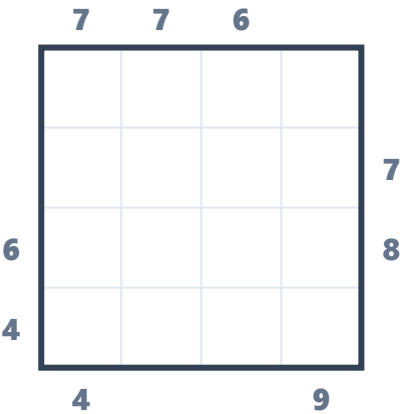
Play online: [sum-skyscrapers/#15](#)

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Puzzle #12

MEDIUM

4 × 4



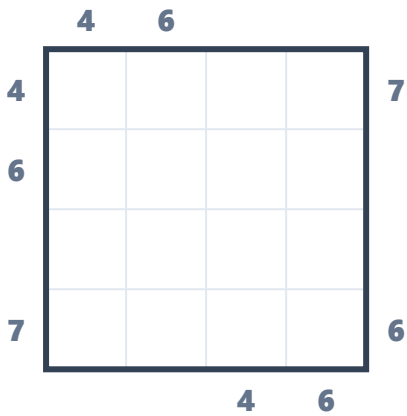
Play online: [sum-skyscrapers/#16](#)

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Puzzle #13

MEDIUM

4 × 4



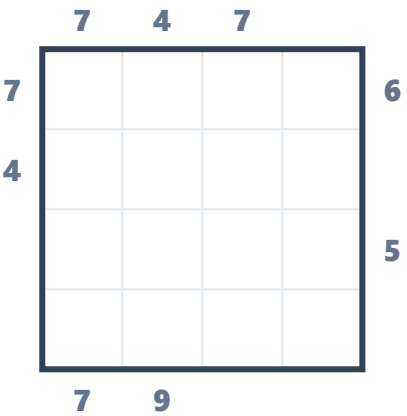
Play online: [sum-skyscrapers/#17](https://aztest.org/puzzles/sum-skyscrapers/#17)

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Puzzle #14

MEDIUM

4 × 4



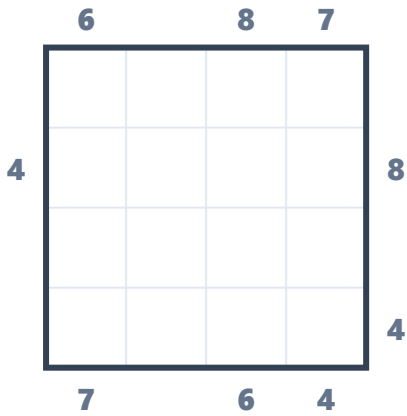
Play online: [sum-skyscrapers/#18](https://aztest.org/puzzles/sum-skyscrapers/#18)

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Puzzle #15

MEDIUM

4 × 4



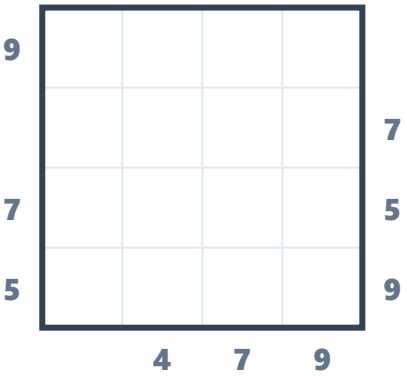
Play online: [sum-skyscrapers/#19](https://aztest.org/puzzles/sum-skyscrapers/#19)

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Puzzle #16

MEDIUM

4 × 4



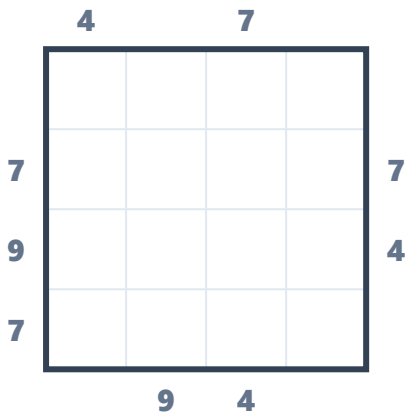
Play online: [sum-skyscrapers/#20](https://aztest.org/puzzles/sum-skyscrapers/#20)

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Puzzle #17

MEDIUM

4 × 4



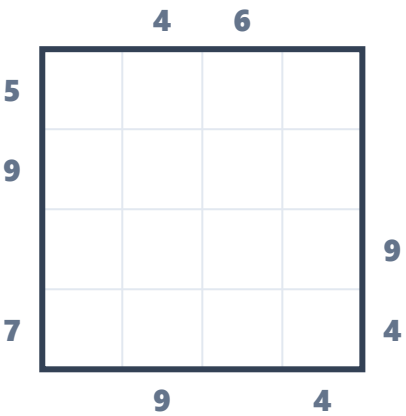
Play online: [sum-skyscrapers/#21](#)

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Puzzle #18

MEDIUM

4 × 4



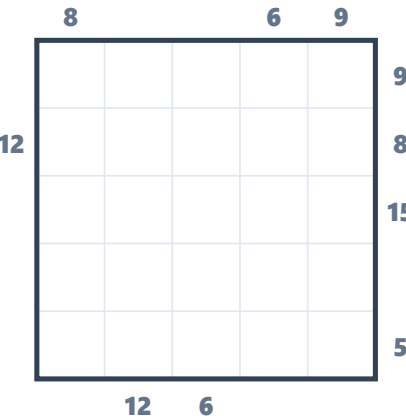
Play online: [sum-skyscrapers/#22](#)

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Puzzle #19

HARD

5 × 5



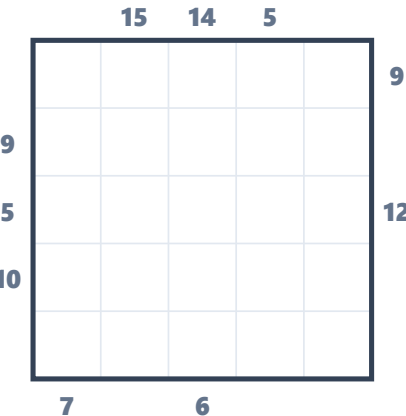
Play online: [sum-skyscrapers/#23](#)

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Puzzle #20

HARD

5 × 5



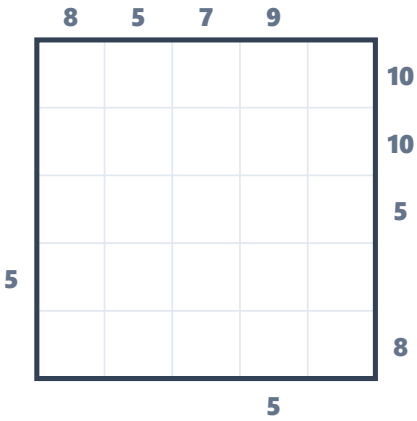
Play online: [sum-skyscrapers/#24](#)

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Puzzle #21

HARD

5 × 5



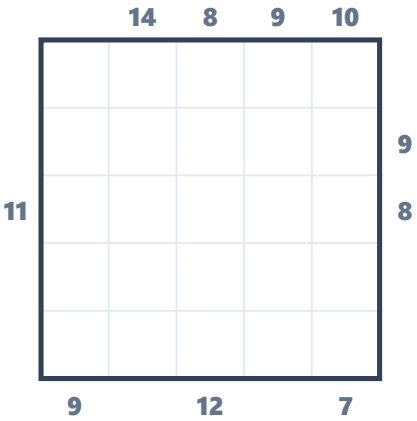
Play online: [sum-skyscrapers/#25](https://aztest.org/puzzles/sum-skyscrapers/#25)

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Puzzle #22

HARD

5 × 5



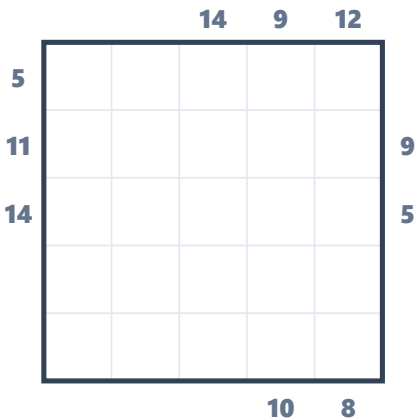
Play online: [sum-skyscrapers/#27](https://aztest.org/puzzles/sum-skyscrapers/#27)

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Puzzle #23

HARD

5 × 5



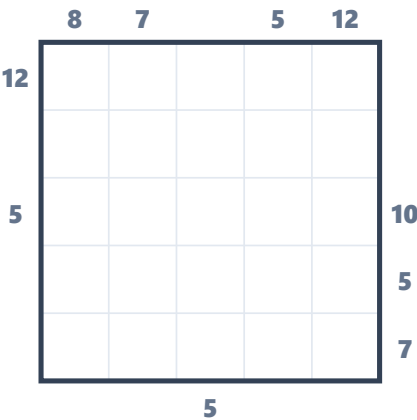
Play online: [sum-skyscrapers/#28](https://aztest.org/puzzles/sum-skyscrapers/#28)

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Puzzle #24

HARD

5 × 5



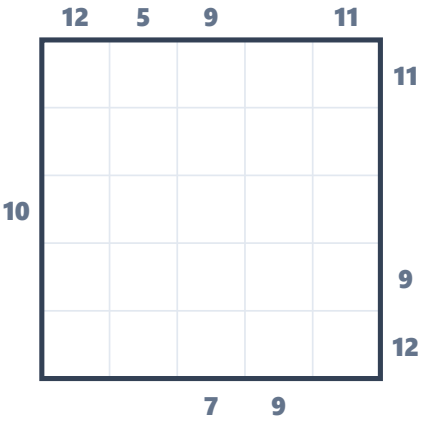
Play online: [sum-skyscrapers/#29](https://aztest.org/puzzles/sum-skyscrapers/#29)

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Puzzle #25

HARD

5 × 5



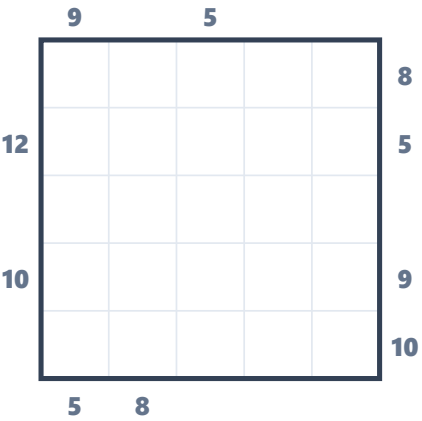
Play online: [sum-skyscrapers/#30](#)

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Puzzle #26

HARD

5 × 5



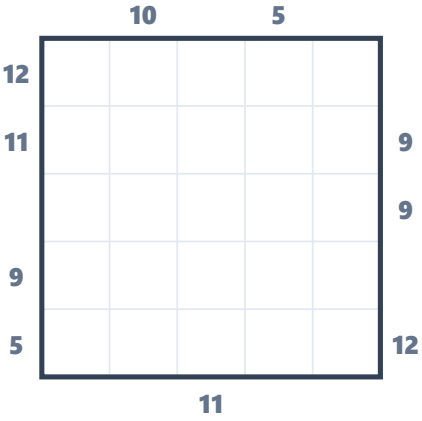
Play online: [sum-skyscrapers/#31](#)

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Puzzle #27

HARD

5 × 5



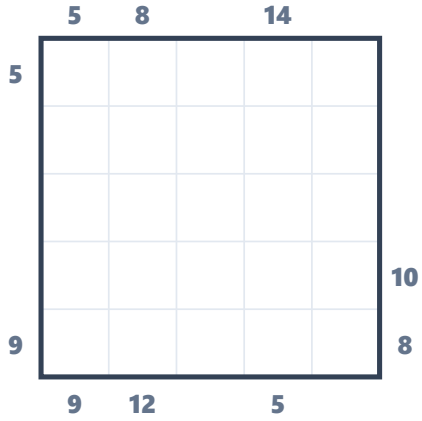
Play online: [sum-skyscrapers/#32](#)

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Puzzle #28

HARD

5 × 5



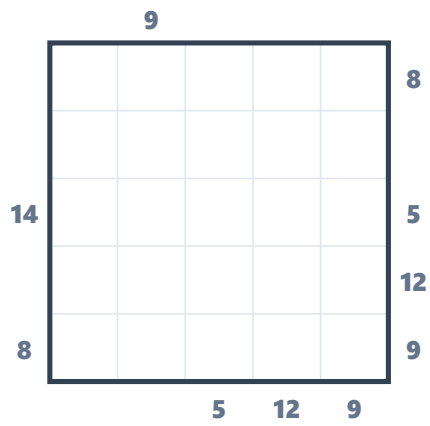
Play online: [sum-skyscrapers/#34](#)

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Puzzle #29

HARD

5 × 5



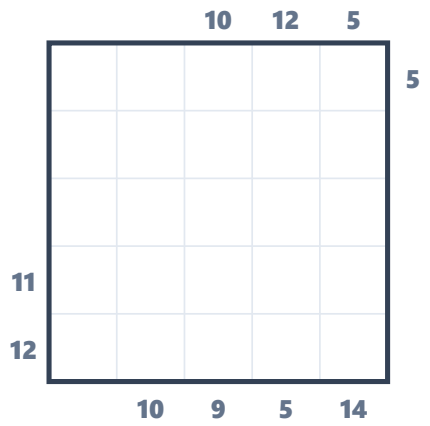
Play online: [sum-skyscrapers/#35](#)

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Puzzle #30

HARD

5 × 5



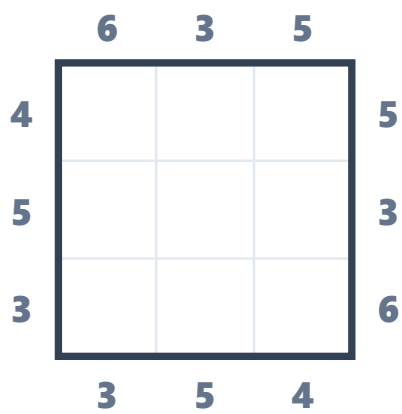
Play online: [sum-skyscrapers/#36](#)

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Puzzle #31

STARTER

3 × 3



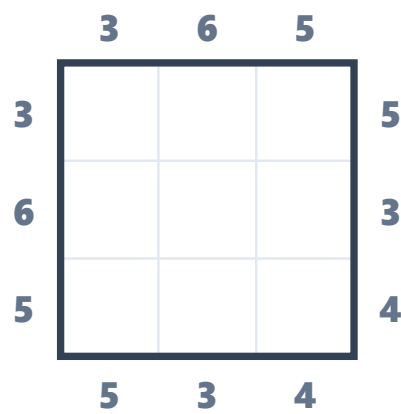
Play online: [sum-skyscrapers/#1](#)

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Puzzle #32

STARTER

3 × 3

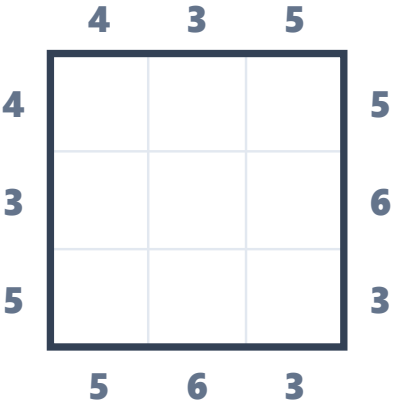


Play online: [sum-skyscrapers/#2](#)

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Puzzle #33 STARTER

3 × 3

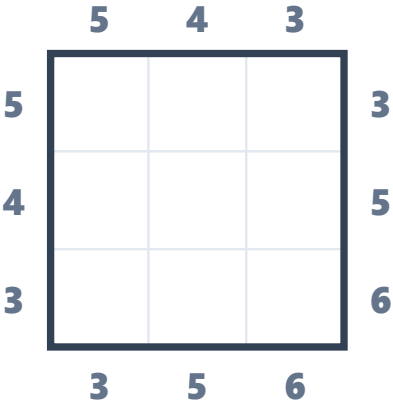


Play online: [sum-skyscrapers/#3](#)

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Puzzle #34 STARTER

3 × 3



Play online: [sum-skyscrapers/#4](#)

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SUM SKYSCRAPERS SOLUTIONS

Complete solved grids for Puzzles #1 to #12

Puzzle #1

Easy (4×4)

	9	4	8	7	
6	2	4	1	3	7
10	1	2	3	4	4
7	3	1	4	2	6
4	4	3	2	1	10
	4	7	6	7	

Puzzle #2

Easy (4×4)

	9	4	5	7	
6	2	4	1	3	7
7	3	1	4	2	6
10	1	2	3	4	4
4	4	3	2	1	10
	4	7	9	5	

Puzzle #3

Easy (4×4)

	10	7	4	6	
8	1	3	4	2	6
9	2	1	3	4	4
7	3	4	2	1	7
4	4	2	1	3	7
	4	6	10	7	

Puzzle #4

Easy (4×4)

	10	4	9	7	
5	1	4	2	3	7
9	2	1	3	4	4
7	3	2	4	1	5
4	4	3	1	2	9
	4	7	5	6	

Puzzle #5

Easy (4×4)

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

Puzzle #6

Easy (4×4)

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

Puzzle #7

Easy (4×4)

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

Puzzle #8

Easy (4×4)

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

Puzzle #9

Medium (4×4)

				8	
9	2	3	4	1	5
	4	1	2	3	
10	1	2	3	4	
	3	4	1	2	6
	7	4	8	6	

Puzzle #10

Medium (4×4)

	4		6		
	4	1	2	3	
9	2	3	4	1	
10	1	2	3	4	4
7	3	4	1	2	6
	7	4			

Puzzle #11

Medium (4×4)

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

Puzzle #12

Medium (4×4)

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

SUM SKYSCRAPERS SOLUTIONS

Complete solved grids for Puzzles #13 to #24

Puzzle #13

Medium (4×4)

	4	6			
4	4	2	1	3	7
6	2	4	3	1	
	1	3	2	4	
7	3	1	4	2	6
	4	6			

Puzzle #14

Medium (4×4)

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

Puzzle #15

Medium (4×4)

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

Puzzle #16

Medium (4×4)

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

Puzzle #17

Medium (4×4)

	4		7		
	4	1	3	2	
7	3	4	2	1	7
9	2	3	1	4	4
7	1	2	4	3	
		9	4		

Puzzle #18

Medium (4×4)

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

Puzzle #19

Hard (5×5)

	8		6	9		
	3	5	2	1	4	9
12	1	2	4	5	3	8
	5	4	3	2	1	15
	4	1	5	3	2	
	2	3	1	4	5	5
	12	6				

Puzzle #20

Hard (5×5)

		15	14	5			
		3	1	2	5	4	9
9		4	2	3	1	5	
5		5	3	4	2	1	12
10		1	4	5	3	2	
		2	5	1	4	3	
		7	6				

Puzzle #21

Hard (5×5)

	8	5	7	9		
	3	5	2	4	1	10
	1	4	5	3	2	10
	2	3	4	1	5	5
5	5	1	3	2	4	
	4	2	1	5	3	8
						5

Puzzle #22

Hard (5×5)

	14	8	9	10		
	5	2	3	4	1	
	1	3	5	2	4	9
11	2	1	4	5	3	8
	3	4	2	1	5	
	4	5	1	3	2	
	9	12	7			

Puzzle #23

Hard (5×5)

			14	9	12	
5	5	1	2	4	3	
11	1	2	3	5	4	9
14	2	3	4	1	5	5
	4	5	1	3	2	
	3	4	5	2	1	
				10	8	

Puzzle #24

Hard (5×5)

	8	7		5	12	
12	1	2	4	5	3	
	2	5	1	3	4	
5	5	3	2	4	1	10
	4	1	3	2	5	5
	3	4	5	1	2	7
						5

SUM SKYSCRAPERS SOLUTIONS

Complete solved grids for Puzzles #25 to #34

Puzzle #25

Hard (5×5)

	12	5	9		11	
	3	5	4	1	2	11
	2	3	1	5	4	
10	1	4	3	2	5	
	4	2	5	3	1	9
	5	1	2	4	3	12
		7		9		

Puzzle #26

Hard (5×5)

	9		5			
	4	2	5	1	3	8
12	3	4	1	2	5	5
	1	5	4	3	2	
10	2	1	3	5	4	9
	5	3	2	4	1	10
		5		8		

Puzzle #27

Hard (5×5)

		10		5		
	3	1	4	5	2	
12	2	4	5	3	1	9
11	1	5	3	2	4	9
	4	3	2	1	5	
9	5	2	1	4	3	12
5						11

Puzzle #28

Hard (5×5)

	5	8		14		
5	5	3	1	2	4	
	1	5	4	3	2	
	2	4	3	1	5	
	3	2	5	4	1	10
9	4	1	2	5	3	8
		9	12		5	

Puzzle #29

Hard (5×5)

		9				
	1	4	2	5	3	8
	4	5	1	3	2	
14	2	1	3	4	5	5
	5	3	4	2	1	12
8	3	2	5	1	4	9
		5		12		9

Puzzle #30

Hard (5×5)

		10	12	5		
	4	3	2	1	5	5
	1	5	3	2	4	
	5	2	1	4	3	
11	2	4	5	3	1	
12	3	1	4	5	2	
		10	9	5	14	

Puzzle #31

Starter (3×3)

	6	3	5	
4	1	3	2	5
5	2	1	3	3
3	3	2	1	6
	3	5	4	

Puzzle #32

Starter (3×3)

	3	6	5	
3	3	1	2	5
6	1	2	3	3
5	2	3	1	4
	5	3	4	

Puzzle #33

Starter (3×3)

	4	3	5	
4	1	3	2	5
3	3	2	1	6
5	2	1	3	3
	5	6	3	

Puzzle #34

Starter (3×3)

	5	4	3	
5	2	1	3	3
4	1	3	2	5
3	3	2	1	6
	3	5	6	

Congratulations on completing the puzzles!

Visit aztest.org/puzzles/ for 25+ free logic puzzle games, brain teasers, and cognitive exercises.