# **GAS** Leak

Genuinely Approachable Sudoku from the CtC Discord

Volume 49:

February 1 – February 28, 2025

Welcome to February!

We got a full month of GAS puzzles for you, one better than the other.

We got arrows in several forms and rulesets, often and rarely or never before seen rulesets, and learn our prime numbers in the range 1 to 9. Of course we also get our share of heart-y puzzles as this month includes Valentines Day – and a puzzle with only an emoji as title.

Have fun solving!

# February 1, 2025: Search 9

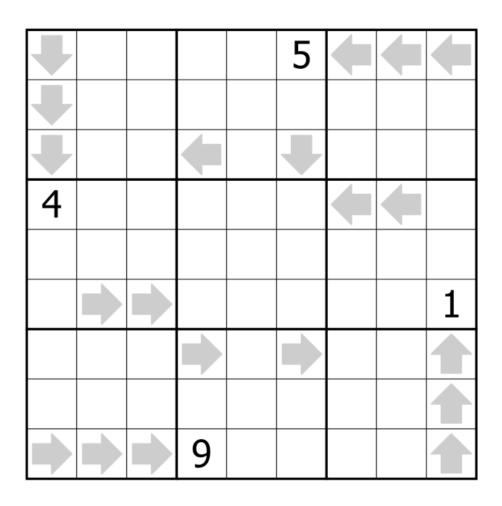
by clover!

Walkthrough for Philip's "Mr. Unpointy": <a href="https://youtu.be/pbEDyhUyDCg">https://youtu.be/pbEDyhUyDCg</a>

I seem to have lost my 9. Can anybody help me search 9? 🥺



Normal sudoku rules apply. Each digit in an arrow tells you how many steps away the 9 is in the direction of the arrow. For instance, if an arrow cell contains a 1, then the 9 is in the cell immediately next to it in the direction of the arrow.



SudokuPad: <a href="https://sudokupad.app/k4vh2m2je6">https://sudokupad.app/k4vh2m2je6</a>

# February 2, 2025: NISSAN ALTIMA

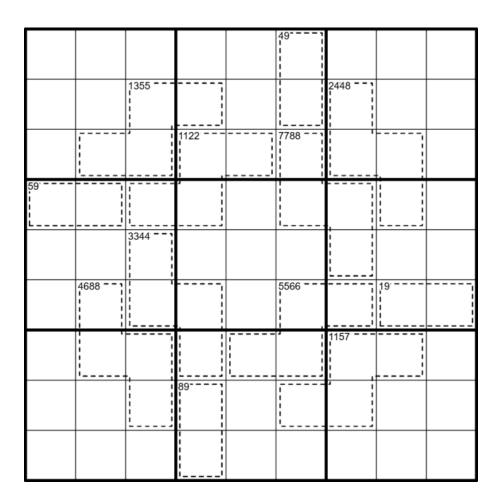
by Bill Murphy

Walkthrough for Search Nine: <a href="https://youtu.be/5rUDruCGR3U">https://youtu.be/5rUDruCGR3U</a>

Just got treated to the best night of eating in my life as my birthday present from my girlfriend, god I love her

# Today's **GAS** is a **Zone Sudoku**!

Normal Sudoku Rules Apply. Digits in the top left of cages must appear in that cage.



https://sudokupad.app/ryq9vcx3xe

#### February 3, 2025: A Stupid Question

by Philip Newman

Walkthrough of "NISSAN ALTIMA" by Bill: <a href="https://youtu.be/mKNikUAQpBE">https://youtu.be/mKNikUAQpBE</a>

In today's edition of "Philip's tales of woe and suffering", I managed to hurt my knee Saturday helping Zoe play at Luke's birthday party. It's better than it was Saturday night (at least now I can bend it!) but ow.

I, for one, welcome our new clone bodies.

Today's GAS is a Clone Sudoku!

Normal sudoku rules apply.

Clone: The shaded regions are clones, and must contain the same digits in the same relative positions.

<u> </u>								
		3	2					1
	4			3			2	
5			4			ფ		
		5			4			
	6			5			4	
			6			5		
		7			6			5
	8			7			6	
9					8	7		

# February 4, 2025: Counting Different Sudoku

by Bill Murphy

Walkthrough for "A Stupid Question": <a href="https://youtu.be/7d5xl2VOwuA">https://youtu.be/7d5xl2VOwuA</a>

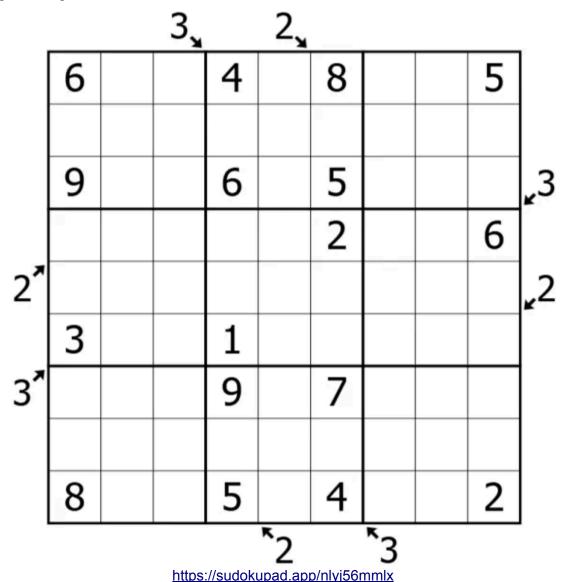
Clover's on a plane, so you're stuck with me today!

(Sidenote: absolute called shot putting up a puzzle called NISSAN ALTIMA the day before Doechii wins the Grammy)

Tomorrow's my first day of teaching for the year and I think one of the things that I don't think I could have ever anticipated about how my life would turn out is being 33 and still getting first day of school nerves?

#### Today's GAS is a Count Different Sudoku!

Normal Sudoku Rules Apply. Clues outside the grid give the number of unique digits that appear along that diagonal.



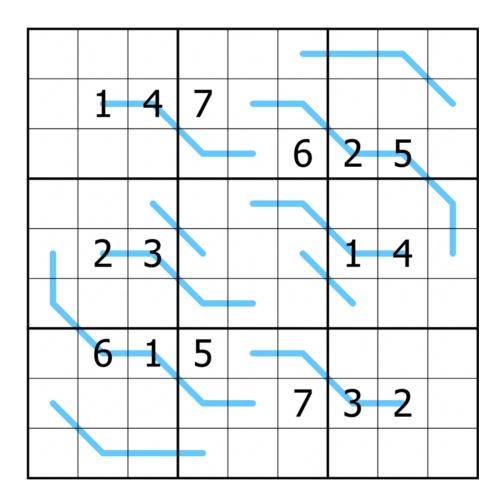
#### February 5, 2025: Region Sum Lines

by clover!

Edit: Walkthrough for Bill's "Counting Different": <a href="https://youtu.be/0U1ZkbXDIYo">https://youtu.be/0U1ZkbXDIYo</a>

Good morning, friends! Today's video will be delayed due to a debilitating case of jet lag. The jet lag also rendered me completely unable to test my own puzzle, so everybody say thank you to @Gliperal for providing today's 2 hat time! If you solved faster than him, you get two hats; slower, one hat; and if you took exactly the same amount of time, you get 1.5 party hats (one ordinary hat, and the left half of one that's been cut down the middle).

Today's GAS is a **region sum lines** sudoku. Normal sudoku rules apply. There are some blue lines in the grid, each of which passes through multiple regions of the grid. The digits on each blue line have the same sum in each region it passes through. For example, r2c2+r2c3 = r3c4+r3c5.



SudokuPad: <a href="https://sudokupad.app/wegw1ju1e4">https://sudokupad.app/wegw1ju1e4</a>

# February 6, 2025: Thermo on the Brain

by Philip Newman

Walkthrough of "Region Sum Lines" by clover: https://youtu.be/pe1sXFhoPwU

In today's edition of "Philip's tales of woe and suffering", Luke has the flu. 😷



# Today's **GAS** is a **Classic Sudoku**!

Normal sudoku rules apply. And that's it!

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

Play on SudokuPad: <a href="https://sudokupad.app/philip-newman/20250206-thermo-on-the-brain">https://sudokupad.app/philip-newman/20250206-thermo-on-the-brain</a> Play on f-puzzles: <a href="https://f-puzzles.com/?id=26wkjve2">https://f-puzzles.com/?id=26wkjve2</a>

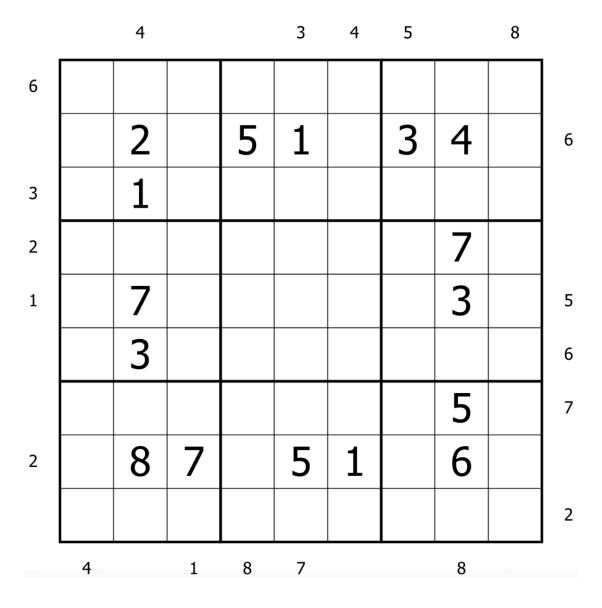
# February 7, 2025: First Seen Odd/Even

by clover!

Edit: Walkthrough for Philip's "Thermo On the Brain": <a href="https://youtu.be/D6cdcXRhbGw">https://youtu.be/D6cdcXRhbGw</a>

I'm back in Kansas and - since my house is torn apart by the flooring people - on internet out in my barn again, watching the 'video uploaded' ticker tick ever-so-slowly upwards. Be patient with me - I'll post the two videos I owe you later this afternoon or evening! :

But not even wild horses could keep me from sharing a fresh hot **first seen odd/even sudoku** with you on this beautiful chilly morning. Normal sudoku rules apply. Clues indicate the first odd or first even digit seen in that row or column, looking from the direction of the clue. For instance, the 6 in row 6 must be the rightmost even digit in that row.



SudokuPad: <a href="https://sudokupad.app/nr53zrh1m5">https://sudokupad.app/nr53zrh1m5</a>

#### February 8, 2025: Showtime!

by Bill Murphy

Walkthrough for First Seen Odd/Even: <a href="https://youtu.be/PZ44Y">https://youtu.be/PZ44Y</a> D6dAE

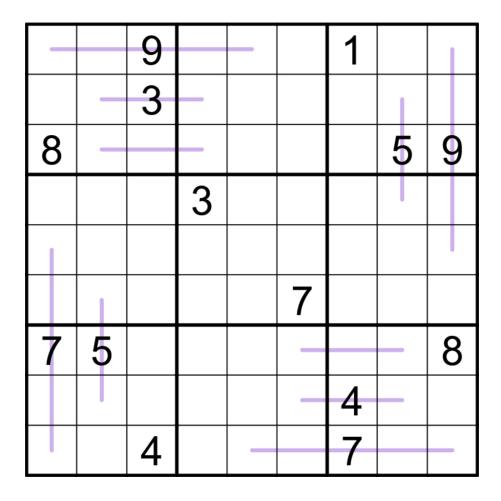
thank you to everyone who also shared their experiences with also having first day of school nerves, here's the update: it went really well! i got to give a bunch of really cool experiences to a bunch of kids, like sublimating matching company uniforms (not an actual company, they were 14/15) and laser cutting a cute steampunk butterfly for a kid who was having a sensory meltdown and making her day.

for bonus points: they had to put a sign up because i banged my head twice on the same corner, i remain undefeated, no man, no mortal or immortal object will stop me

Today's GAS is a **Zipper Line** Sudoku!

Normal Sudoku Rules Apply. Pairs of digits equidistant from the center of a lavender line must sum to the digit in the center of the line. (eg. R1C1 + R1C5 = R1C2 + R1C4 = R1C3)

They're all ODD length today. didn't mix and match this time.



https://sudokupad.app/utvet1e6zp

#### February 9, 2025: Big/Small/Odd/Even

by clover!

Walkthrough for Bill's "Showtime!": <a href="https://youtu.be/JKE\_9C2Wta4">https://youtu.be/JKE\_9C2Wta4</a>

I have a couple of fun things for you today - yes, you, the rare folks who diligently read these intros instead of going straight to the (admittedly lovely) tracker spreadsheets.

- Did you know that Gliperal, James Sinclair, and I spent three hours yesterday interviewing the setters of some of this year's most monstrous and brutal puzzles? Basically the opposite of GAS, so if you don't know what you're doing here, maybe you should check that out instead: https://twitch.tv/videos/2376149951
- 2. Did you know that there's a Sudoku Grand Prix round happening **right now**? The puzzles are by setters from Ukraine, and the round lasts until the 12th! More details here: <a href="https://gp.worldpuzzle.org/content/sudoku-qp">https://gp.worldpuzzle.org/content/sudoku-qp</a>
- 3. Did you know that the first round of this year's Sudoku Mahabharat starts in a few days over on Logic Masters India? This competition is particularly beloved by GAS solvers because you can solve the puzzles online and don't need a printer! Check it out here: <a href="https://logicmastersindia.com/SM/2025sm.asp">https://logicmastersindia.com/SM/2025sm.asp</a>
- 4. Did you know that today's GAS is a stone cold banger set by yours truly, Clover Freakin' Moon? ©
- 5. Did you know that I went back and edited the right walkthrough videos into my recent posts, now that I've survived jetlag and flu?
- 6. Did you know that *Philip* now has the flu, and that's why I'm posting today? Send him some Dayquil in the comments!

 $\downarrow\downarrow\downarrow\downarrow$  (The puzzle is on the next page)  $\downarrow\downarrow\downarrow\downarrow$ 

**Big/Small/Odd/Even**: Normal 8x8 sudoku rules apply. Clues outside of the grid stand for 'Big' (5678), 'Small' (1234), 'Odd' (1357), and 'Even' (2468), and describe the first two digits in that row or column, closest to the clue. For example, r2c1 and r2c2 are both odd.

	1	2	3	4	5	6	7	8	
0									Ε
В									Ε
				2					
					4				
Ε									S
Е									0
	4	5	6	7	8	1	2	3	

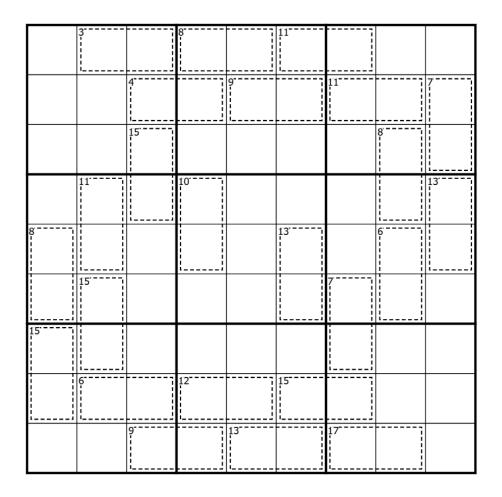
SudokuPad: <a href="https://sudokupad.app/xrmvfz2gxk">https://sudokupad.app/xrmvfz2gxk</a>

# February 10, 2025: Fall In Love

by Bill Murphy

Walkthrough for Big Even Small Odd: <a href="https://youtu.be/t-HARNQB0fE">https://youtu.be/t-HARNQB0fE</a> wow clover really said everything yesterday! just go read her intro again! today's gas is a killer sudoku!

Normal Sudoku Rules Apply. Digits in cages must sum to the given total



https://sudokupad.app/lo7fnxum35

#### February 11, 2025: Beeling Flu

by Philip Newman

Walkthrough of "Fall In Love" by Bill: <a href="https://youtu.be/OP0YG4SEmgk">https://youtu.be/OP0YG4SEmgk</a>

In today's edition of "Philip's tales of woe and suffering"... well, you already know I got the flu. Luke had to go to urgent care for fluids and low blood sugar, and his cough is still terrible.

The only silver lining is that I get to make puzzles while slightly loopy, and that's usually a good time.

#### Today's GAS is a Position Indexer Sudoku!

Normal sudoku rules apply.

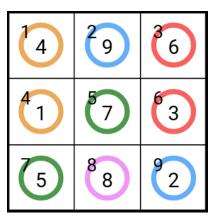
Position Indexer: The cells marked in blue are position indexers: if a digit D is in position P in its box, then digit P is in position D in the same box. (All cells in boxes 1, 5, and 9 are position indexers.)

I've attached an image of a valid fill for a box of position indexers! Hopefully that is helpful if you have never done one of these before. [Note from typesetter: on next page]

<u> </u>								
						4	3	2
	3	4	5	6				
1	2			7	8			
			1		9			
			2	3			8	9
				4	5	6	7	
8	7	6						

Play on SudokuPad: <a href="https://sudokupad.app/philip-newman/20250211-beeling-flu">https://sudokupad.app/philip-newman/20250211-beeling-flu</a>
Play on f-puzzles: <a href="https://f-puzzles.com/?id=2yde3fqu">https://f-puzzles.com/?id=2yde3fqu</a>

valid fill for a box of position indexers:



# February 12, 2025: 1 IS NOT PRIME

by clover!

1 is not prime.

Walkthrough for ailing Philip's "Beeling Flu": <a href="https://youtu.be/iZtPAaEulOs">https://youtu.be/iZtPAaEulOs</a>

Also, have I mentioned that 1 isn't prime?

@Peas eggs [122xO,6xChamp] has requested that I remind you dear things about **Sudoku Mahabharat**, round 1 of which starts in two days! Will Sudoku be your Valentine this year? <a href="https://logicmastersindia.com/live/?contest=SM202501">https://logicmastersindia.com/live/?contest=SM202501</a>

Oh, and 1 isn't prime!

Normal sudoku rules apply. Circled digits tell you how many of the (up to 8) surrounding digits are prime. (Prime numbers in 9x9 sudoku are 2, 3, 5, and 7).

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

SudokuPad: https://sudokupad.app/mbt1zdw1t4

#### February 13, 2025: Queen Sudoku

by Bill Murphy

Walkthrough for 1 IS NOT PRIME: <a href="https://youtu.be/97j4dn8HgiY">https://youtu.be/97j4dn8HgiY</a>

Do I have a puzzle with a love heart ready to go for today? Absolutely. But honestly, it's more important shout out my **Queen** who i love and am very excited to cook for tomorrow night

Also to all y'all who keep asking for chess move puzzles. Y'all wild

Normal Sudoku Rules Apply. 9s cannot see each other along a diagonal.

So yes, **Anti-queen on 9s in this sudoku**. (This is only the second time we've done Anti-queen, Philip's is here: <u>#daily-sudoku-puzzles</u> [Typesetters note: October 22, 2023 in GAS Leak 33])

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

https://sudokupad.app/zgmhijhjsv

#### Febrary 14, 2025: 💚 by Philip Newman

Walkthrough of "Queen Sudoku" by Bill:

[I should be able to catch up on recordings this weekend; still sound awful!]

In today's edition of "Philip's tales of woe and suffering"... Zoe has a fever now. 😢

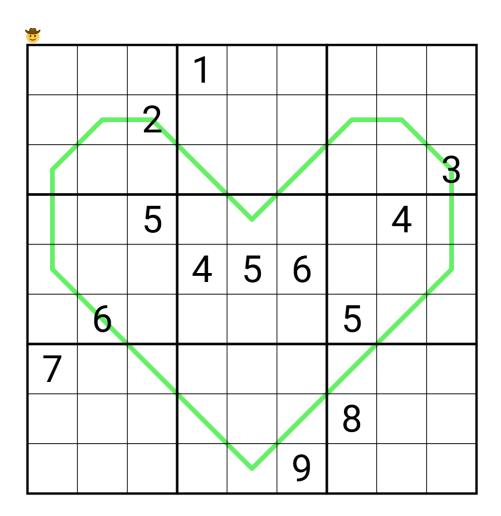


#### Today's GAS is a German Whispers Sudoku!

Longer hat times on this one! As my Valentine's gift to you, the classic may be a bit less straightforward... >\_>

Normal sudoku rules apply.

German Whispers: Digits in cells directly connected by a green line must differ by at least 5.



Play on SudokuPad: <a href="https://sudokupad.app/philip-newman/20250214-greenheart">https://sudokupad.app/philip-newman/20250214-greenheart</a> Play on f-puzzles: <a href="https://f-puzzles.com/?id=27268kqn">https://f-puzzles.com/?id=27268kqn</a>

# February 15, 2025: Same Cage Sums

by clover!

Walkthrough for Philip's "<3": <a href="https://youtu.be/2AFVNHvDJ6Q">https://youtu.be/2AFVNHvDJ6Q</a> (having some internet trouble, it'll upload shortly)

Have you ever looked at a killer sudoku and thought to yourself: I'd like this even more if they refused to tell me the cage totals? Then I applaud your masochistic streak,and I hope you like this same cage sums sudoku as much as I do.

Normal sudoku rules apply. In each outlined 3x3 region, all of the marked cages have the same sum as each other. Different regions might have different sums.

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

SudokuPad: <a href="https://sudokupad.app/zx62vvjfis">https://sudokupad.app/zx62vvjfis</a>

#### February 16, 2025: Dream Catch Me

by Bill Murphy

Walkthrough for Same Cage Sums: <a href="https://youtu.be/V8kmhbvNvkc">https://youtu.be/V8kmhbvNvkc</a>

Got an escape room gift card for my birthday and took the girlfriend and brother and his partner as more heads are better than one. We nailed it in 24:05, which placed us second on the "No clues" scoreboard, which was pretty strong. People have heard I love puzzles.

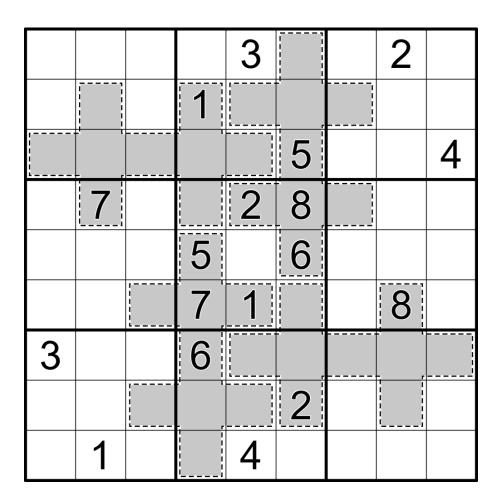
(The scoreboard now reads:

- 2. Sexy Falcon
- 3. Piss-Boy and The Chin

which to me makes Advance Australia Fair play in my heart, but I don't expect that to be true for everyone)

#### Today's GAS is an Extra Region Sudoku!

Place the digits 1-9 in each row, column, box and shaded region. (Cages added for emphasis)



https://sudokupad.app/1i96x2any7

# February 17, 2025: Guardian Angles

by Philip Newman

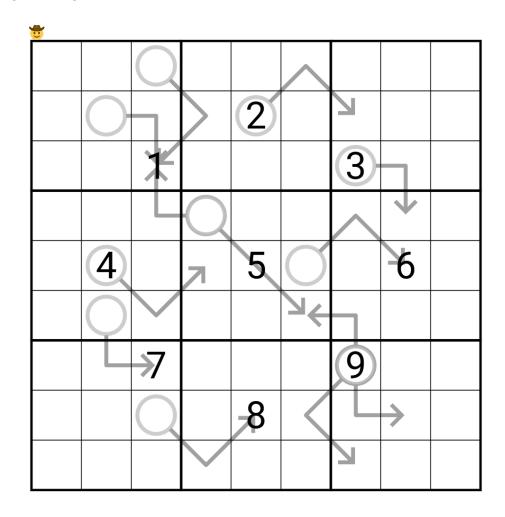
Walkthrough of "Dream Catch Me" by Bill: <a href="https://youtu.be/nnH2srUmNdw">https://youtu.be/nnH2srUmNdw</a>

In today's edition of "Philip's tales of woe and suffering"... Luke and I both ended up with sinus infections; finally clearing up now with meds. Zoe still feels bad and will probably need IV fluids. It's been a rough couple weeks here, but at least I have today off?

#### Today's GAS is an Arrow Sudoku!

Normal sudoku rules apply.

Arrow: Digits along arrows must sum to the circled total.



Play on SudokuPad: <a href="https://sudokupad.app/philip-newman/20250217-guardian-angles">https://sudokupad.app/philip-newman/20250217-guardian-angles</a>
Play on f-puzzles: <a href="https://f-puzzles.com/?id=2aemw76y">https://f-puzzles.com/?id=2aemw76y</a>

# February 18, 2025: Sum Next to 9

by clover!

Walkthrough for Philip's "Guardian Angles": <a href="https://youtu.be/P4Gql\_9X6jw">https://youtu.be/P4Gql\_9X6jw</a>

Good morning, friends! Today's video is slightly delayed. Today's GAS, on the other hand, is a **sum next to 9** sudoku, where you'll sum the numbers that are next to 9, by adding 8+10 to get 18. I'm not sure what that has to do with this puzzle, but I hope you enjoy it anyways!

Normal sudoku rules apply. Clues outside of the grid give the sum of the digits next to the 9 in that row or column. If the 9 is on the end of the row or column, the clue gives the value of the single digit next to it.

	5	2		11	11	11		2	6
5		8							
1									5
				1	2				
							1		
7			1				2		
7			2						
					1	2			
1	4								
6								3	

SudokuPad: <a href="https://sudokupad.app/3azp8z15kx">https://sudokupad.app/3azp8z15kx</a>

# February 19, 2025: Sum Next To Nine Sudoku

by Bill Murphy

Walkthrough for Queen Sudoku, finally: <a href="https://youtu.be/kETCGefT9r4">https://youtu.be/kETCGefT9r4</a> Walkthrough for Sum Next To Nine: <a href="https://youtu.be/48bXlylwJRs">https://youtu.be/48bXlylwJRs</a>

#### Hey.

Come closer.

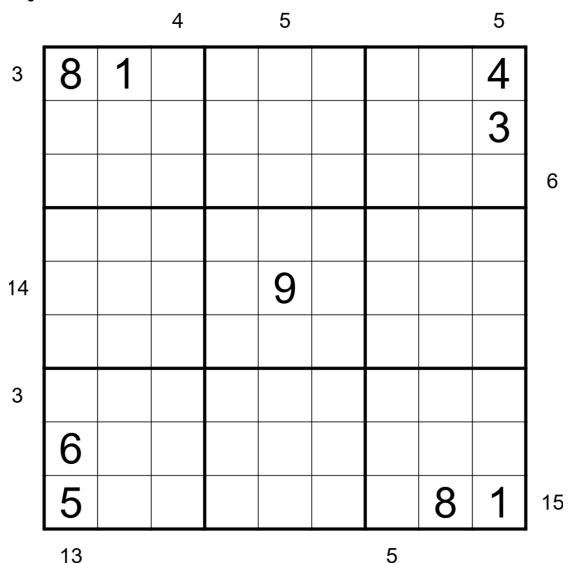
Closer.

I got a question to ask you.

You're the sort of person who learns from your mistakes, right?

# Today's GAS is also a Sum Next To Nine Sudoku!

Normal sudoku rules apply. Clues outside of the grid give the sum of the digits next to the 9 in that row or column. If the 9 is on the end of the row or column, the clue gives the value of the single digit next to it.



https://sudokupad.app/97tx8uypm9

#### February 20, 2025: Withdrawal

by Philip Newman

Walkthrough of "Sum Next To Nine Sudoku" by Bill: <a href="https://youtu.be/aeJXs2c-yzM">https://youtu.be/aeJXs2c-yzM</a>

In today's edition of "Philip's tales of whoa and struggling"... why is it in the teens in Texas?? I checked our weather the next few days, and this is what it's doing:

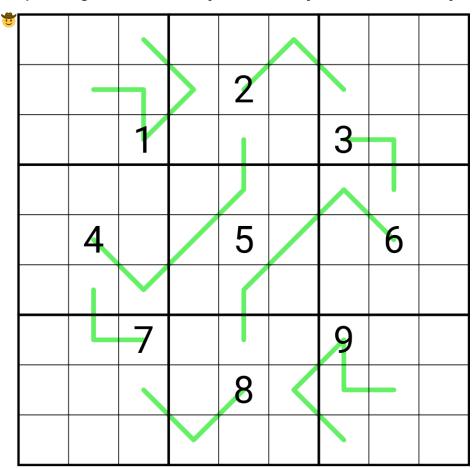
Last Night: 10°F (-12C)
Today: High in the 20s
Tomorrow: High in the 30s
Saturday: High in the 40s
Sunday: High in the 50s
Monday: High in the 60s
Tuesday: High in the 70s

Get it together, Texas.

Today's GAS is a German Whispers Sudoku!

Normal sudoku rules apply.

German Whispers: Digits in cells directly connected by a line must differ by at least 5.



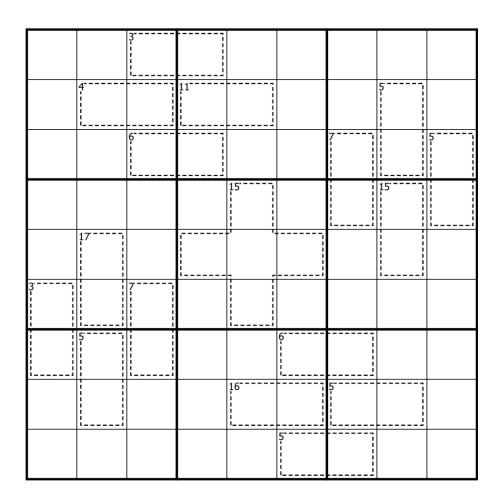
Play on SudokuPad: <a href="https://sudokupad.app/philip-newman/20250220-withdrawal">https://sudokupad.app/philip-newman/20250220-withdrawal</a> Play on f-puzzles: <a href="https://f-puzzles.com/?id=235n87kq">https://f-puzzles.com/?id=235n87kq</a>

# February 21, 2025: Killer

by clover!

Walkthrough for Philip's "Withdrawal": <a href="https://youtu.be/xukdB2Alx8w">https://youtu.be/xukdB2Alx8w</a>

Good morning, friends! Videos will be up tonight, I'm off to the airport. In the meantime, why not enjoy this **killer sudoku**? Normal sudoku rules apply. Digits in cages sum to the indicated totals.



SudokuPad: https://sudokupad.app/4a4uw62883

# February 22, 2025: Corner|Edge Sudoku III

by Bill Murphy

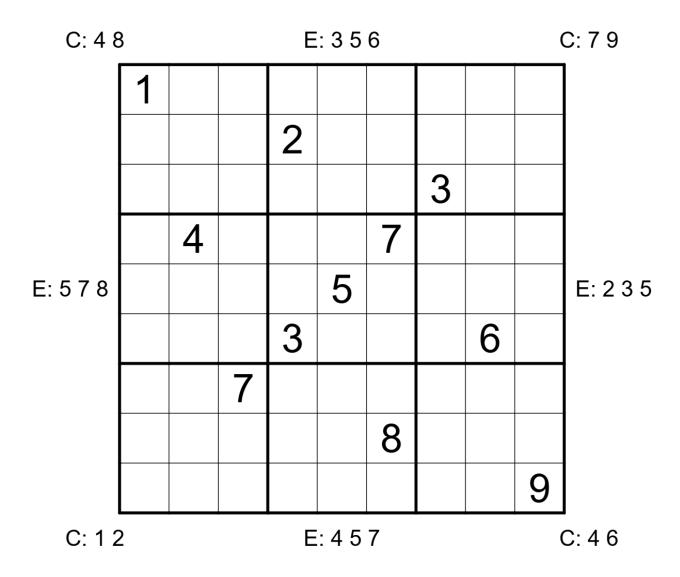
Walkthrough for Killer: <a href="https://youtu.be/A9-UqWUWfvq">https://youtu.be/A9-UqWUWfvq</a>

It's easy to make a symmetrical puzzle. It's less easy to make one with a strong visual theme and I think I nailed it today.

#### Today's GAS is a Corner|Edge Sudoku!!

Normal Sudoku Rules Apply. Clues outside the grid starting with 'C:' give digits that must appear in the corner of it's adjacent box. Clues outside the grid starting with 'E:' give digits that must appear on the edge of it's adjacent box.

So, Boxes 1, 3, 7 and 9 would be the corners of a sudoku grid and boxes 2, 4, 6 and 8 would be the edges, but do that on a smaller scale, yeah?



https://sudokupad.app/s8uh2we0rm

# February 23, 2025: Circular Saw

by Philip Newman

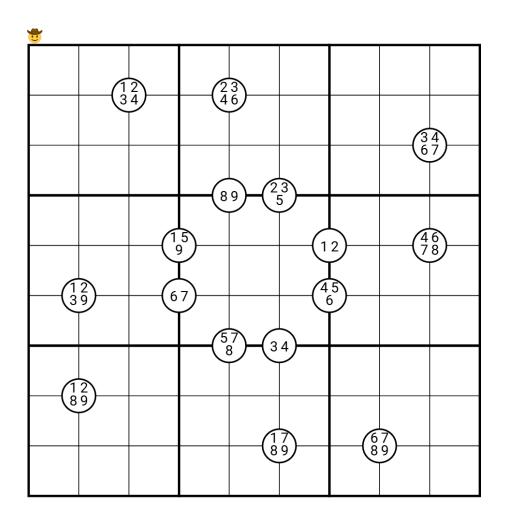
Walkthrough of "Corner|Edge Sudoku III" by Bill: <a href="https://youtu.be/tnZ2CN9K2t4">https://youtu.be/tnZ2CN9K2t4</a>

No video yet because I'm on Zoe-whisperer duty this morning, trying to get her to eat a little something. She's mostly over the flu, but hasn't gotten her appetite back yet. Otherwise we're... maybe almost back to normal? Fingers crossed.

#### Today's GAS is a Quadruples Sudoku!

Normal sudoku rules apply.

Quadruples: Digits in corner circles must appear in the surrounding four cells, in some order.



Play on SudokuPad: <a href="https://sudokupad.app/philip-newman/20250223-circular-saw">https://sudokupad.app/philip-newman/20250223-circular-saw</a>
Play on f-puzzles: <a href="https://f-puzzles.com/?id=282gsueg">https://f-puzzles.com/?id=282gsueg</a>

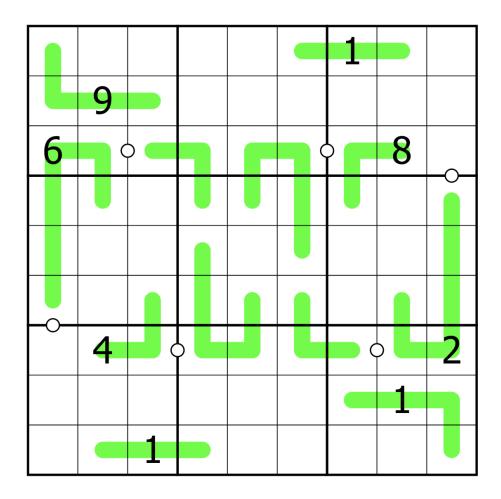
#### February 24, 2025: German Dots

by clover!

Walkthrough for Philip's "Circular Saw": <a href="https://youtu.be/gx3jeX9hwjc">https://youtu.be/gx3jeX9hwjc</a>

I spent a long time trying to riff on a lovely Philip puzzle that used renban lines and German Whispers, only to realize 97% of the way through that a 2-cell renban is probably better represented as a consecutive circle. But if you want the full original experience this time, feel free to imagine that every white dot is actually a neon purple line. You're welcome, colorblind solving friends!

Today's GAS is a **German whispers/consecutive pairs sudoku!** Normal sudoku rules apply. German whispers: along each green line, adjacent digits must have a difference of 5 or more. Consecutive pairs: digits separated by a white dot are consecutive (have a difference of 1). Not all possible dots are necessarily given.



SudokuPad: <a href="https://sudokupad.app/kekvw74dn1">https://sudokupad.app/kekvw74dn1</a>

**February 25, 2025: Even** 

by Bill Murphy

Walkthrough for German Dots: <a href="https://youtu.be/sYkc4S5pBsY">https://youtu.be/sYkc4S5pBsY</a>

tell philip to post the killer tomorrow! it's really really good here, i'll hand y'all a softball today so that way he feels less bad about being mean

Today's GAS is an **Even** Sudoku!

**Will it SQUARE**? (p.s. go do that GAPP ring ring (square) from yesterday, it's nice hanging around really smart homies [Note from typesetter: you can use this link])

Normal Sudoku Rules Apply. Cells containing a grey square must contain an even digit.

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

https://sudokupad.app/kzjpxyupp9

#### February 26, 2025: Peer Pressure

by Philip Newman

Walkthrough of "Even" by Bill: <a href="https://youtu.be/ndhAPIIBkeQ">https://youtu.be/ndhAPIIBkeQ</a>

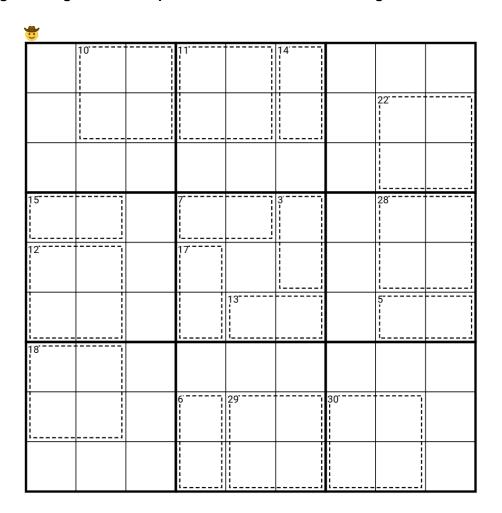
The morning got away from me, so in the interest of getting a puzzle up before noon I'll wait on the video until later.

We're back to Philip riffing on a theme, and we're also posting out of the intended order because Bill is one of the cool kids and his peer pressure is too OP.

#### Today's GAS is a Killer Sudoku!

Normal sudoku rules apply.

Killer: Digits in cages cannot repeat and must sum to the total given.



Play on SudokuPad: <a href="https://sudokupad.app/philip-newman/20250226-peer-pressure">https://sudokupad.app/philip-newman/20250226-peer-pressure</a>
Play on f-puzzles: <a href="https://f-puzzles.com/?id=23szydzb">https://f-puzzles.com/?id=23szydzb</a>

# February 27, 2025: Pole Position

by clover!

Walkthrough for Philip's "Peer Pressure": <a href="https://youtu.be/FXhBUVQ3HXc">https://youtu.be/FXhBUVQ3HXc</a>

"Pole position" is a term for the best possible starting position on a racing track. In this **pole position sudoku**, you've all been given the pole position, rendering the advantage meaningless. 

Good morning!

Normal sudoku rules apply. The first digit in each row or column tells you where the '1' is located in that row or column. For instance, if r1c6 contained a 3, then the 1 in that column would be located in the third position from the top.

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

SudokuPad: <a href="https://sudokupad.app/8uioi1u92b">https://sudokupad.app/8uioi1u92b</a>

# February 28, 2025: Sudoku Is For Lovers

by Bill Murphy

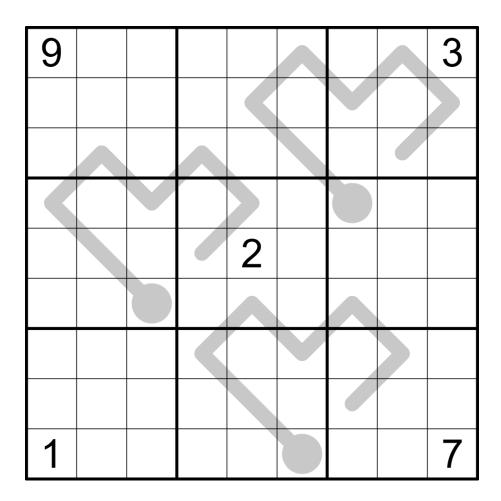
walkthrough for pole position: <a href="https://youtu.be/8m8a8L6PU0Q">https://youtu.be/8m8a8L6PU0Q</a>

i woke up just to post this for you! you're not who i'm referencing in the title here though, but if you love someone, go share the act of puzzling together  $\forall$ 

(my act of love today was photoshopping the gun from the cover of true crime streets of LA onto a photo of my girlfriend, she loved it)

Today's GAS is a **Thermo Sudoku!** 

Normal Sudoku Rules Apply. Digits along thermometers increase from bulb to tip.

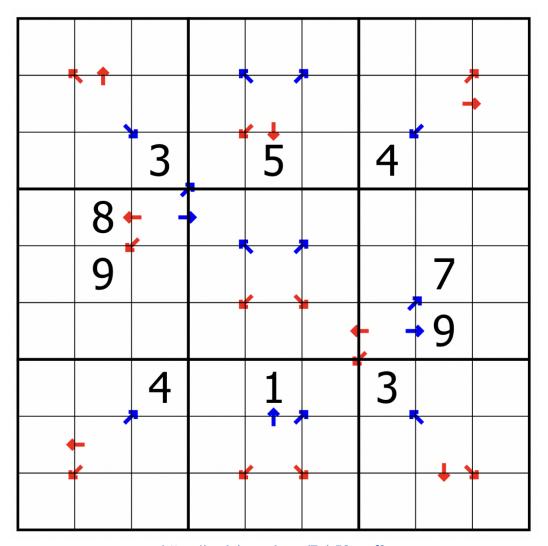


https://sudokupad.app/4yx242w9i8

# **Bonus 1: Scattered Arrows**

Bill Murphy

Normal Sudoku Rules Apply. Some cells contain 2 or more arrows. The cells pointed at by each colour of arrow from that cell must have the same sum.

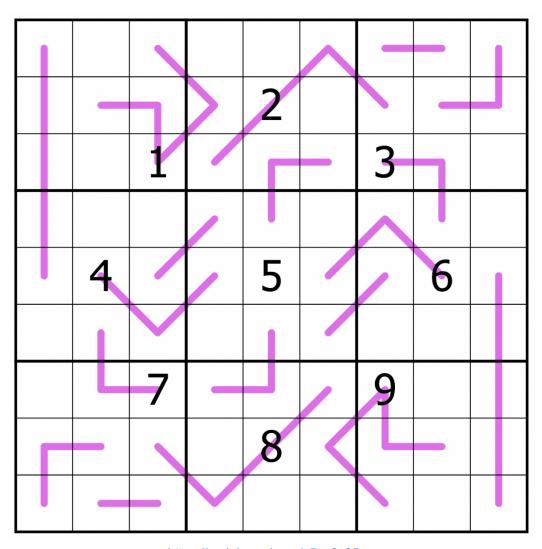


https://sudokupad.app/7qb53yepf0

#### Bonus 2: Renban Philip Newman

Normal sudoku rules apply.

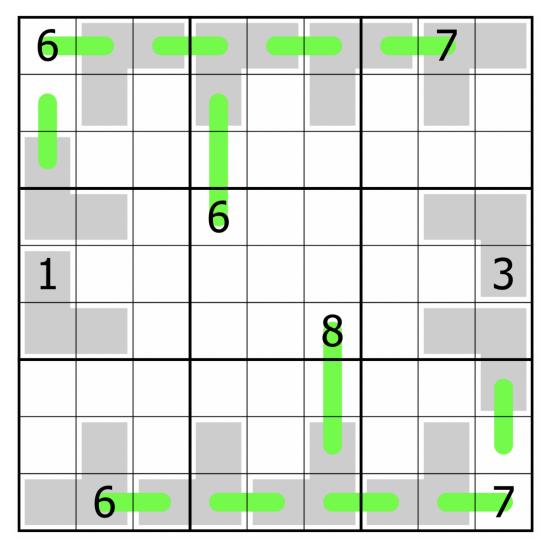
Renban: Digits along lines must form a non-repeating consecutive set, in any order. (For example, a 4-cell renban line could be 4352, but not 5679 or 2312.)



https://sudokupad.app/s5oc0c85on

# **Bonus 3: German Whispers / Renban** Clover

Normal sudoku rules apply. Each gray region contains a set of consecutive digits, which may appear in any order (such as 2543). Along each green line, adjacent digits must have a difference of 5 or more.



https://sudokupad.app/902wlt2mtt

# Bonus 4: Antiwindoku

Clover

Normal sudoku rules apply. Each cage contains exactly four different digits.

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

https://sudokupad.app/cosm3xn0ol

# Bonus 5: Killer Philip Newman

Normal sudoku rules apply. Killer: Digits in cages cannot repeat and must sum to the total given.

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https://sudokupad.app/0r6biu5o22

#### **Time Benchmarks**

	520	500	
	Two party hats	One party hat	Todays dinosaur:
Feb 1, 2025	8:00	15:00	lost-and-found Lourinhasaurus
Feb 2, 2025	7:00	13:00	Satisfied Sanjuansaurus
Feb 3, 2025	7:00	13:00	Ardent Ardetosaurus <sup>1</sup>
Feb 4, 2025	7:30	14:00	Anticipatory Abrictosaurus
Feb 5, 2025	7:33	13:33	regnoial Regnosaurus
Feb 6, 2025	6:00	12:00	Aethereal Aetonyx
Feb 7, 2025	6:30	12:00	sleepyheaded Stegosaurus
Feb 8, 2025	7:00	13:00	OuChangyuraptor
Feb 9, 2025	6:00	11:00	8x8 8trociraptor
Feb 10, 2025	7:00	12:30	Brief Brachytrachelopan
Feb 11, 2025	7:00	13:00	Mucosal Morosaurus
Feb 12, 2025	7:00	13:00	prime Pachycephalosaurus
Feb 13, 2025	7:00	13:00	Valentine's Vahiny
Feb 14, 2025	9:00	20:00	Struggling Strenusaurus
Feb 15, 2025	6:00	11:00	non-numerical Nomingia
Feb 16, 2025	7:00	13:00	King Khaan
Feb 17, 2025	8:00	16:00	Perpendicular Pachysaurus
Feb 18, 2025	8:00	15:00	snowed-in Sonorasaurus
Feb 19, 2025	7:00	13:00	Slightly faster Sonorasaurus
Feb 20, 2025	8:00	16:00	Chugging-Along Chuxiongosaurus
Feb 21, 2025	8:30	16:00	rushed Rhoetosaurus
Feb 22, 2025	7:00	13:00	Subtextual Silvisaurus
Feb 23, 2025	8:00	16:00	Apple-a-Day Atlantosaurus
Feb 24, 2025	6:30	12:00	dizzy Diceratops
Feb 25, 2025	6:30	12:00	Encouraging Elmisaurus
Feb 26, 2025	8:00	16:00	Esoteric Euskelosaurus
Feb 27, 2025	7:00	13:00	pole-dancing Polacanthus
Feb 28, 2025 <sup>2</sup>	8:00	15:00	Sentimental Saurornitholestes

New sauropod alert! Ardetosaurus was named in October and only just added to Wikipedia's list of sauropod species this month (along with Qunkasaura, featured in the January 22 GAS). For a bonus hat, go do any puzzle with someone you care about today. (yeah that includes even

wordle)