By Jonah Ostroff

This is a gallery of things you can do in Google Sheets that are helpful for puzzle hunts.

The first few tabs (in gray) contain practical advice that you can implement without too much practice.

The later **orange** tabs contain advanced examples. Don't feel like you have to learn how to reproduce them! Instead, the examples are meant to show what's possible.

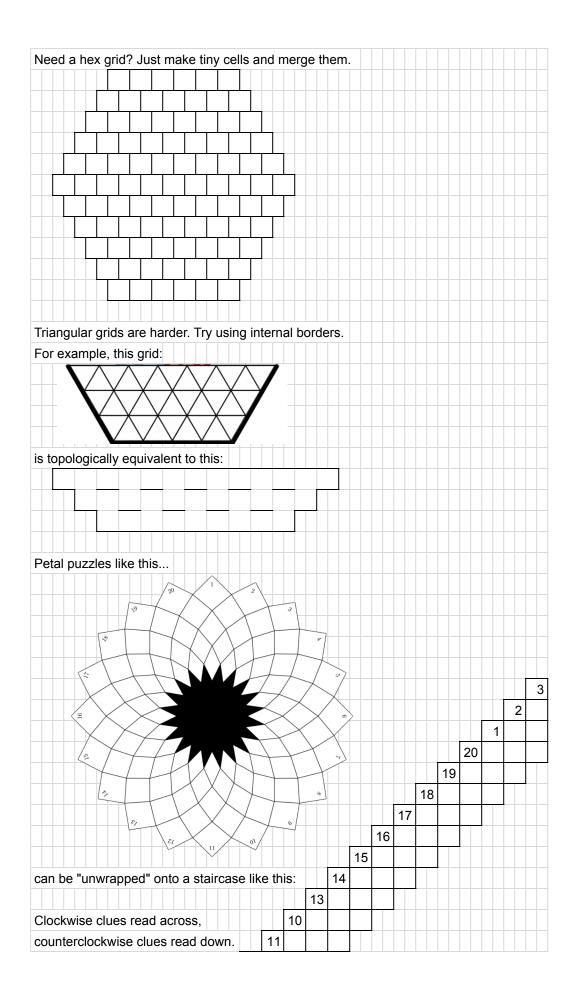
If you're solving a puzzle and feel like some Sheets wizardry would make it easier, there's probably someone around who will be happy to implement it. Just ask!

Want your own version of this sheet to mess with? Choose File -> Make a copy.

Date	Change
11/4/2023	Added VIGENERE, SUBTRACT_LETTERS, ALTERNATING_LETTERS, and BINARY_WOF to Named Functions.
1/8/2024	Added a changelog.
	Added COUNT_ONLY to Named Functions.

General tips/conventions									
•									
Put answers (to clues, puzzles, et						engths.			
Capitalize clue answers you're pre	etty sure about. Put them in	lowercase (perha	ps with a "?") if y	ou're not at all cor	ifident.				
Use formulas to avoid errors in inc	lexing. MID() and (sometim	es) REGEXREPL	ACE() are the ma	ain tools you need	here.				
If you have a hunch you want to e	xplore, make (and name!) a	new column in th	e sheet to try it o	out so other people	can see what you	u're doing.			
Or, if it's complicated to impleme	nt, duplicate the tab and try	it on your own. N	ame it something	like "[Your name]	's sheet".				
Setting up a puzzle									
f your text is awkward to copy dire	ectly into a sheet (this happ	ens a lot when co	pying from PDFs	), paste it in a text	editor first to clear	n it up.			
Consider using View -> Freeze if									
Sometimes it's easier to insert an									
Once you've set up your sheet, <b>ch</b>				u haven't conied					
one you've set up your sneet, on	leck the original pazzle at	juin to see ii tiici	c o unyuning yo	ia naven i copica					
Lists of things									
Got a big table that you're not sure	how to outroot from? Hoo	Data > Create a	filter to put it in a	a filtor					
,		Dala -> Creale a	inter to put it in a	a ilitei.					
This makes it much easier to reso									
Before you sort a list, make a colu									
f you decide that a column isn't us									
When a column is based on anoth	er column, use formulas to	compute it where	ver possible so tl	hat your edits prop	agate.				
f someone else has set up formul	as in a table, don't overwr	ite them! Please	check that a cell	is actually empty b	efore you type in	it.			
Similarly, if you set up a formula	in a table, make it hard to o	verwrite! Either ch	ange the formatt	ting to indicate tha	t it's special, or us	e Data -> Protect	ed sheets and ra	nges to protect	it.
If you have notes about some ite	ms in a list, put them in a n	ew column so it's	easier to track (a	ind so they don't g	et lost when the lis	st is sorted).			
If you'd like to mark items in your I							lighting.		
,						J	-		
Checkboxes									
To make a checkbox, choose Inse	_								
Checkboxes are interpreted as tru		r they're checked	so it's easy to "	se them in formula	s				
For example, the contents of the c				So arom in formula					
	en below change dependin	g on whether the t	oox is checked.						
The box is unchecked.									
And this text box uses conditional									
To see how that works, select the	above cell and choose For	mat -> Condition	al Formatting.						
Crossword puzzles									
Make two grids: one for letters, an	d one for numbers.								
Make two grids: one for letters, an Use conditional formatting to shad		whenever the corr	esponding cell ir	n the letter grid is f	lled.				
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Use conditional formatting to shad Use lowercase letters for answers  Logic puzzles  There are lots of ways you can us However, if it's a standard genre o Find the genre on https://puzz.lin  Helpful Shortcuts  ctrl+shift+V  ctrl+shift+V  alt+shift+1,2,3,4  alt+shift+6  alt+shift+7  ctrl+Y  Helpful Sheets Formulas  LEN(S)  MID(S,n,m)  SUBSTITUTE(S,R,T)  REGEXREPLACE(S,R,T)  CONCATENATE([list])  IF (P,A,B)  JPPER(S)  COUNTIF(R,S)  CHAR(N)  CODE(X)  MOD(n,m)	e a cell in the number grid '/letters you're not sure about //letters //lett	make logic puzzles I as one, consider Ide, then use File - Ifor copying from thout altering cell of pp, right, bottom, o cell a cell (or block of of t undone anything S of length m start with every substrin	s smoother in she using puzz.link i > Network Play webpages, or for contents) r left of a cell (red cells) it'll repeat your r ing at the nth po ing R replaced by ing matching regu specific uses. It use CONCAT( pitalized t match S I. Note: A=65, so en useful combine ")-65+n, 26)+6	eets (see "Some lonstead. to generate a cool r pasting without d spectively)  most recent action sition. Useful for in the string T. ular expression R ).) add 64 to go from ed with CHAR abo 55) will Caesar shi	gic puzzles").  p link to share with srupting condition in the current cell.  idexing.  replaced by the structure of the stru	al formatting)  Good for highlighting T.			
Use conditional formatting to shad Use lowercase letters for answers Logic puzzles There are lots of ways you can use However, if it's a standard genre of Find the genre on https://puzz.lin Helpful Shortcuts Ctrl+shift+V Ctrl+alt+V alt+shift+1,2,3,4 alt+shift+6 alt+shift+7 ctrl+Y Helpful Sheets Formulas LEN(S) MID(S,n,m) SUBSTITUTE(S,R,T) REGEXREPLACE(S,R,T) CONCATENATE([list]) IF(P,A,B) JUPPER(S) COUNTIF(R,S) CHAR(N) CODE(X) MOD(n,m) ISBLANK(C)	e a cell in the number grid '/letters you're not sure about //letters //lett	make logic puzzles I as one, consider I as one, consider I for copying from I thout altering cell of I p, right, bottom, o cell I contain the cell of I co	s smoother in shi using puzz.link i > Network Play webpages, or for contents) r left of a cell (re- cells) it'll repeat your r  ing at the nth po ng R replaced by ng matching regu specific uses. It use CONCAT( pitalized t match S I. Note: A=65, so en useful combin- ")-65+n, 26)+6 seful for conditior	eets (see "Some lonstead. to generate a coo r pasting without d spectively)  most recent action sition. Useful for in the string T. ular expression R ).) add 64 to go from ed with CHAR abo 5) will Caesar shi hal formatting.) Ca	pgic puzzles").  p link to share with strupting condition in the current cell.  idexing.  1-26 to A-Z.  ive.  it A by n.  n also use A1<>""	al formatting)  Good for highlighting T.			
Use conditional formatting to shad Use lowercase letters for answers  Logic puzzles  There are lots of ways you can us However, if it's a standard genre o Find the genre on https://puzz.lin  Helpful Shortcuts  ctrl+shift+V  ctrl+shift+V  alt+shift+1,2,3,4  alt+shift+6  alt+shift+7  ctrl+Y  Helpful Sheets Formulas  LEN(S)  MID(S,n,m)  SUBSTITUTE(S,R,T)  REGEXREPLACE(S,R,T)  CONCATENATE([list])  IF (P,A,B)  JPPER(S)  COUNTIF(R,S)  CHAR(N)  CODE(X)  MOD(n,m)	e a cell in the number grid '/letters you're not sure about //letters //lett	make logic puzzles I as one, consider I as one, consider I for copying from I thout altering cell of I p, right, bottom, of Cell I coll (or block of of I undone anything I undone anything I though a cell (or block of I though a cell I th	s smoother in shi using puzz.link i > Network Play webpages, or for contents) r left of a cell (re- cells) it'll repeat your r  ing at the nth po ng R replaced by ng matching regu specific uses. It use CONCAT( pitalized at match S I. Note: A=65, so en useful combin ") - 65+n, 26)+6 beful for conditior useful for looking useful for looking useful for looking useful for looking	eets (see "Some lonstead. to generate a coo r pasting without d spectively)  most recent action sition. Useful for in the string T. ular expression R ).) add 64 to go from ed with CHAR abo 55) will Caesar shi hal formatting.) Ca g up cells in one pi	pgic puzzles").  p link to share with strupting condition in the current cell.  idexing.  1-26 to A-Z.  ive.  it A by n.  n also use A1<>""	al formatting)  Good for highlighting T.			

I free to u	se your own convention it	f you think it will be clea	r! This is just a suggested set of indicators.	
s notation h	nas the nice side effect that	the letters in the final ans	wer are exactly the capital letters. This makes it easier t	o index, find lengths, etc.
Notation	Mechanic	Answer	Clue	Source
+	Concatenation	YEN+T+A	36 Long time a blabbermouth (5)	Silk, Send Off Copies
*	Anagram	MILE*	43 More than 5,000 feet squashed lime (4)	Trazom, Baker's Dozen Theme and Variations
()	Grouping, insertion	T(RU)EST	10. Most accurate experiment involving ruthenium (6)	Listener 4533, Telling Lies
<	Reversal	EMIT<	40 Throw out newsmagazine retrospective	Qaqaq, Matchmaker
-	Subtraction	S(-h)AKE	36. Firm deal closer rejects hot sushi accompaniment	Tinhorn, Plainly In The Maine
_WORD_	Hidden word	_RA VIOLI_	21 Italian eats extra violin string	Halpin, Do I Hear a Waltz?
X_	First letter, etc.	FIR_	1. Douglas, e.g., opening letters from firstborn	Bartók, Concerto For Orchestra
(ddef)	Double definition	SALE (ddef)	18 Trade for Red Sox pitcher Chris (4)	Tortoise, Dropping The Ball
->	Replacement	POO(h->R)	5. Beggarly husband of Piglet's chum becomes red	Ucaoimhu, The Second City
("word")	Homophone	BELLE ("bell")	34 Beautiful girl sounding alarm	Trazom, The Four Seasons
(abbr.)	Other clue type	EDD (inits)	8 Announcer Hall initially emulates Dr. Demento	Jangler, Rise to Power
//	Ambiguity	TH_+OUGH(t) // TH_+O+R	24. But half of them ought to strike right character of "might"	Ucaoimhu, Full House
CC 33	Puzzle-specific gimmick	S[[m]]LAB<	7. Back ointments put on thickly	Harth, Party!
[[ ]]	(e.g. extra letter from wordplay)			



		10
	9	
	8	
7		
6		
5		
4		
3		
2		
1 1		

Here are some things	you can do with I	REGEXREPLAC	E.			
This isn't as scary as	it looks!					
You don't need to lear	n the entirety of re	egular expression	n syntax.			
99% of the time you'll	just be using [, ],	and ^.				
Short summary: a reg	ular expression is	a shorthand not	ation for strings th	at follow a particu	ılar pattern.	
The regular expression	n [ABC][DEF] me	ans "any two-lett	er string whose fir	st letter is A, B, o	r C,	
and whose second let	tter is D, E, or F".	Strings like AD, E	BE, and BF would	be said to "match	n" that regular exp	ression.
[^AB] means "any cha	aracter that's <i>not P</i>	or B".				
With REGEXREPLAC	E, we can find all	of the substrings	s in a cell that mat	ch a pattern, and	replace them with	n something else
Evenuelo 4, eneven						
Example 1: answer (	_	s five descentions				
A string:	Pack my box with					
Cleaned up:	PACKMYBOXWITHE	·TAFDOZENTIÓDO	KJUGS			
What happened here	Pirst. we used U	PPER() to make	all of the lowerca	se letters capital.		
Then, REGEXREPLA						
Specifically, "[^A-Z]" n			•	n A and Z".		
Our REGEXREPLAC					letters.	
(If you're just removin			• •			ation marks. etc.
, ,						,
Example 2: indexing						
A string:	Pack my box with	n five dozen liquo	or jugs.			
An index:	17					
Indexed letter:	E					
Here we cleaned up t	he answer (just lik	ce before), then p	assed it into MID	).		
MID(string,index,1) th	en returned 1 cha	racter starting at	the index-th posit	ion of string.		
The cleaning step is in	mportant! Otherwi	se your index wil	l include spaces,	punctuation, etc.		
Example 3: deleting						
An almost-pangram:	Pack my box with	i n four dozen ligue	or iugs			
The alphabet:	ABCDEFGHIJKL	•				
The missing letter:	V	initor artorov	WX12			
The fillooning lotter.	•					
This time, we used the	e almost-pangram	as part of the re	gular expression!			
The regular expression		-	•		any letter in that s	entence.
Then we deleted all o				-		
	concatenated the	·	•			1 11711

ource: b	ttps://crum	spuzzlehunt.com/	/puzzles/6	To set up a Diagramles	crossword, make two grids: one to fill with letters, and one to keep trace	k of numbers.			
					in the top grid creates a black square in both grids, and entering a letter		akes the corresponding bottom grid cell turn green.		
			One tricky thin	g about Diagramless pu	zles is that you might not know how big the grid should be!				
					r less keep this conditional formatting intact.				
w to eat I	in the form	natting: In the tor	p grid, you just want		3 · · · · · · · · · · · · · · · · · · ·				
WOF		natting. In the top	p grid, you just warn	Answer	Across:	Answer	Down:	Answer	Panda:
W U F	K D			Answer		Answer		Answer	
					1.*		1. Duly		- Alternative rock band
					4. IASIP rating		2. DOGE alternative		- Downside
					Wash achieved with pumice stones		3. Stimulated, as an appetite		- Fit together
					12. Christian sin and Buddhist hindrance		Distinguishing characteristic		- Flip-flop
					14. Muddy the waters		5. 6m circle used in dressage		- Gaze
					15. 1-2-3 of music theory		6. 1/10 of a Maltese cent		- Home run
					18. Pacify		7. Grad, when gender is not given		- Inhabit
					19. Cone-shaped sediment deposits caused by streams (2 wds)		8. Inventors of the shower shoe		- Marine exoskeleton
					22. Tessellate		9. Glide to a halt		- Mined currency
					23. Type of person to have an O-level in camel hygiene		10. Former non-gaming Twitch category		- Patron Saint
					25. Pharmaceuticals, slangily		11. Fly in the face of		- Plantation
					26. *		12. Gathering of snobs		- Promenades
					27. *		13. Hang listlessly		- Sculpting clay
					28. British gallery founder		16. Former Chairman		- Seasonal menu items
					29. Muscles below the delts		17. Memo header		- Well-trained ECHL te
r the hott	om arid: T	he conditional for	rmatting =B6="." ch	erks	31. Fish known for its slipperiness		18. Tropical or Desert, perhaps		- Woolen fabric
			I is equal to ".". Why		33. Turning point in a palindrome about Napoleon		20. South African prairie		- Young men
			grid, we want to co		34. Tent anchor		21. Core ingredients in shish kabob		-?
			orresponding relative		35. Best-selling Nintendo handheld		24. Move like a tail or a finger		
sition. Like	ewise, =B6<	>"" checks whet	ther the correspondi	ng cell	36. Gross river in New Crobuzon		27. Leprechaun-sized		
not equal t	to the empt	y string, in which	case we shade it gr	een.	39. Royal pronoun		30. Namesake of Stoicism		
1 2 3			9 10 11 12		40. Pok'emon game featuring Rayquaza		32. Leave alone (2 wds)		
					43. A short workout, perhaps		34. Richard III or Henry V		
					45. Where you may get into hot water?		37. Giant with a posse		
					46. Literally, literally		38. Echo		
					47. Galloper in the Long Patrol		41. Online newsfeed		
					50. Purveyor of cups and pieces		42. Mimic		
					51. Wrath		44. Colors, Elder Scrolls character		
					52. EMT drop-off sites		47. Napoleon's older brother		
					53. Professional prefix		48. We're in the common one		
					55. Overdue, as taxes		49. Repots a plant		
					58. Fantasy creature sometimes synonymous with goblin		54. Turkish peak		
					60. Pull a leg or a fast one		56. Training grounds of Anthony Bourdain or Anderson Cooper		
					61. What poor Yorick might set a table on (2 wds)		57. Forest Whitaker role		
					63. Aloe Blacc needs one		59. MTV show about celebrity houses		
					66. Array		61. Middle Eastern city built on seven hills		
					68. Ornamental pond fish often known by its German name		62. Chong of Choose Me		
				_	69. Range home to the world's largest open-pit iron mine		63. Buys the farm		
					70. Complex adjective?		64. Primes, typically		
							65. Hawaiian wreath		
					74. Short TV spot				
					75. Frisky gov. agency?		67. The oldest of China's historic capitals		
					76. What may come after a Main or before a martyr?		70. He may be Innamorato or Furioso		
					78. Logic gates more likely to return true		71. Stalks		
					79. Bone which may be true or false		72. Party divider		
					80. Catch a crook		73. Matthew Bonifacio film		
					82. Kimchi cabbage		76. Cologne quantity		
					84. Well, this one's a gimme				
							77. Part of a puppy used to make a little boy		
					86. *		78. Ancient		
					88. *		81. One with no manners		
					91. One of the Everdeens		83. Separate		
					93. Verdi opera		84. Gives four balls to		
					94. Bay		85. Letters for a farmer		
					95. 1978 album by The Residents		86. Mechanically, the opposite of a ladder		
					98. Single, double, triple, e.g.		87. Product designed to be skipped over?		
					100. Comeback		89. Hwy		
					101. Norse trickster		90. Numbers in a set or base		
					102. They're eaten to break sawm		92. Country with the choice of a 3% or 30% tax rate		
					103. 1998 film with animated insects		96. German model of a Dutch van?		
					104. facto		97. What a little bunny might do to a field mouse		
							burny might do to a nois mosso		

	gle added Named Functions! Here are some that a																
	your own solving sheet by choosing Data -> Name at 51 for writing some of these formulas!)	ed functions -> Import function, a	and then choosing this file	e. 													
(Thanks to Soni and Leve	er 31 for writing some or these formulas:)																
Common puzzly one-ce																	
	Explanation Capitalizes and removes non-	Example input		Example output											_		
ANSWERTZE	alphanumeric characters.  Indexes into a string, ignoring non-	This Input is 2 Messy :(		THISINPUTIS2MESSY													
INDEX_INTO	alphanumeric characters.	Index into me!	5	X													
INDEX_INTO_SENTENCE	Indexes into a sentence (by words), delimited by spaces.	No, index into me instead!	5	instead!													
	Alphabetizes the letters in a string.	Goths		GHOST													
	Reverses a string.  Caesar-shifts a string.	Desserts Nowhere	13	stresseD Abjurer													
	Moves some letters from a string to the			spectRe													
ETCENI ETTED	end. Given two strings, finds matching	COMPILE	FORMULA	OL													
	letters in matching positions. Lists all unique letters in a string in		PORMOLA														
LETTER_BANK	alphabetical order.	TOPTOPS		MOST													
MISSING_LETTERS	Lists letters missing from a string.	The quick brown ox jumps over the lazy dog.		F													
	Converts a string to an enumeration (like those in a cryptic clue).	Wouldn't it be cool if this was an enumeration?		6'1 2 2 4 2 4 3 2 11?													
	Note: this also works on _s, e.g.:	,		5 5 4 3 2, 5 5 3 3 4													
NGDAME	Breaks a string into segments of a	Split this up.		SPLI TTHI SUP													
	given length.  Shows all substrings of a string of a																
NGRAMS_ALL	given length.	This too!	4	THIS HIST ISTO STOO													
	Subtracts letters in the second string from letters in the first string (with multiplicity).	ERADICATED	AACDEET	RID													
VIGENERE	Encrypts or decrypts the first string, using a Vigenère cipher with the second string as the key.	ENCRYPTME	OKAY	SXCPMZTKS	(Third	param	eter	is 1)									
	(Use 1 or -1 in the third parameter to encrypt or decrypt.)	ROJJAQKKDRKWXOKWTRQKPOGOT	PASSWORD	CORRECTHORSEBATTERYSTAPLE	(Third	param	eter	is -1	)								
ALTERNATING_LETTERS		Auto show is broadcast	3	THIRDS	(Third	parame	eter	is 3)									
	amount.	On DVD	1	ODD	(Third	param	eter	is 2)									
		New Vienna		EVEN	(Third												
COUNT_ONLY	Counts the number of instances of letters from the second string within the first string.	This pangram contains four As, one B, two Cs, one D, thirty Es, six Fs, five Gs, seven Hs, eleven Is, one J, one K, two Ls, two Ms, eighteen Ns, fifteen Gs, two Ps, one Q, five Rs, twenty-seven Ss, eighteen Ts, two Us, seven Vs, eight Ws, two Xs, three Ys, & one	S	27	,												
		z.  ACCORDINGTOALLKNOWNLAWSOFAV	AEIOU	14378													
Formulas for codes and	data sets Explanation	Evenuela lacort	Formula autout														
	Converts letters to numbers	Example input	Example output												-		
	or vice versa!	15															
BRAILLE	Converts letters to Braille Unicode.	Braille this	11-11-11-1														
MORSE_TO	Converts characters to Morse code.	Morse me, please!	/ / /														
MORSE_FROM	Converts Morse code to normal characters.		WAIT, PUT ME BACK!														
	Converts atomic numbers to chemical	6 13 3 7 77 8 7	C Al Li N Ir O N														
	symbols. Converts chemical symbols (separated by		74 1 85														
ATOTIZE	spaces) to atomic numbers. Computes Scrabble score.	AMNESTY SCOOTER	74 1 85														
COUNTRY FLAC	Given a 2-letter country code, outputs	KG	<u> </u>														
	its flag. Given a 2-letter country code, outputs																
COUNTRY_MAP	its silhouette.	NZ															
Array Functions (these	take arrays as inputs or outputs, so they need a litt	tle more room.)															
Name	Explanation	Example	Output														
SPLIT_INTO_CELLS	Splits a string into cells horizontally, one character per cell.	Split this	S	p	1 i i	t	t h	i s									
DIAGONAL_LETTERS	Diagonalizes an array of words (taking the nth letter of the nth word).	Table below:	HELLO												$\top$		
	the new receiver or the new morely.	Hungary															
		Benin Moldova															
		Iceland															
		Sao Tome														1	
WOF	Creates a Nutrimatic string from a (possibly incomplete) table of letters. Multiple letters are treated as separate possibilities.	Table below:	g[aeiou]_[gh]l[def]														
		AEIOU															
		GH															
		L															
	Conte an annay of stainer to	DEF				П	1							ш		$\perp$	
SORT_BY_LENGTH	Sorts an array of strings by (ANSWERIZED) length.	Input:	Output:														
		PENNY NICKEL	DIME PENNY														
		DIME	NICKEL														
		QUARTER	QUARTER												$\blacksquare$	┸	
NUMBERED_GRID	Input two grids, the second of which contains numbers. Outputs a table of those numbers and the corresponding contents from the first grid.	See table and output to the right.			Inputs:	c :	2 4	1	Outpu 1 C 2 A	t:		other use		Output:	:		
					G H :		3		2 A				3	3 E			
								Π	4 E					4 R			
													2				
				In this	case, ti	he two	"gri	ds" a	re ove	lapping!	→ P	U Z Z	L E				
												1					
											Т	R I C	K S				
												4					

	Contract to the of data (with two columns				
CYCLIC_ORDER	Sorts a table of data (with two columns denoting consecutive entries) into a				
	cyclical order.	Country	Capital	Next in list	
	Technical notes:	Armenia	Yerevan		
	• From should be filled.	Burkina Faso	Ouagadougou	Fiji	
	• It's ok to have gaps in To.	Canada	Ottawa	Armenia	
	Outputs pieces if To has gaps.	Djibouti	Djibouti	Gabon	
	• Breaks if the data contains >1 loop.	Estonia	Tallinn		
		Fiji	Suva	Estonia	
		Gabon	Libreville	Hungary	
		Hungary	Budapest		
		Output:	badapese		
	(Note: because we're missing 3 Tos,	Burkina Faso	Ouenadeuseu	Fiji	
			Ouagadougou		
	the output is in three pieces.)	Fiji	Suva	Estonia	
		Estonia	Tallinn		
		Canada	Ottawa	Armenia	
		Armenia	Yerevan		
		Djibouti	Djibouti	Gabon	
		Gabon	Libreville	Hungary	
		Hungary	Budapest		
	Input a crossword-like grid of letters,	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
CROSSWORD_LIST		the right.			
	of length 2 or more.	che i zgre.			Input: Output:
					P S OWO (This lists all the acrosses in reading
					0 W O A H A AHA order, then all the downs in transposed
					G O O G L E GOOGLE reading order. So not quite the same as
					W H I L E WHILE how crossword ordering works.)
					Z T T US
					A U S POG
					WOWZA
					OOH OOH
					GIT
					ALL
					SHEETS
	Given a grid of numbers and lists of across & down numbers and words (some				
MAKE_CROSSWORD	of which may be empty), generates a	See example to the right.		Source: https://ww	ww.7xwords.com/daily/02/02-02.html
	crossword grid.				Across
					1 2 3 1 [BL]0B Dollop
	Some notes:				4 5 6 7 4 Some printers and computers, briefly
	• If there's a conflict between across	and down entries, the two po	ossibilities are sep	arated by /.	8 9 7 Plata's partner
	You can make rebus squares by surroun				10 8 PARSLEY Key herb for pasta sauce
	Emoji are represented as two character			in []s.	11 10 Humble pie?
	The formula only creates letters. Bar				12 II Japanese food that the English dub of Pokémon localized as "jelly donuts"
	You can make a diagramless this way!				14 Neat drinks lack this
			go, and the letters	WIII TIII III.	
	Currently times out at medium-size gr	105.			13 EYE Tuber protuberance
					14 LES " Misérables"
					Output: Down
					BL O B 1 Guard who wears shin guards
					P 2 Stubborn as a mule
					P A/R R S L E Y 3 ltty bitty baby sock
					A Necessity for cooking beignets
					N 5 PRANCE Move about like a particular reindeer
					C E Y E 6 "Ramy" or "The Queen's Gambit", for example
					L E S 9 "I bid thee farewell", online
	County the number of outbonnells				1 Did thee farewell , Online
COMPONENT_COUNT	Counts the number of orthogonally connected components in a grid whose	See example to the right.			
	cells match a particular string.				Input: Outputs:
					A A A A A A A A A A A A A A A A A A A
	(Mainly useful for shading logic puzzle	s.)			A B B B C C B 3
	, should logic puzzle	,			A C C C C B C 1
					B A C A C B D 0
					BACCCB
					B B A A B B
ALPHABET	Prints the alphabet as one column.				
	Usage is just =ALPHABET() but I don't f	eel like fitting it on this	page.		
SHARPEN	The opposite of FLATTEN(). Reshapes a	Can average to the of the			
STAKPEN	range to use the given number of columns.	See examples to the right.			Input: Output (3 columns): Input: Output (4 columns):
					A A B C A B A B C D
					C G H E F I J K
					D G H
					E I J
					F K
					G
					H ↑ This still works if the input has multiple columns.
CAESAR ALI	Returns all possible Caesar shifts of a	See example to the right.	-		
CAESAR_ALL	string	I've SHARPENed it to take	up less space.		Input: Output (6 columns):
					BN CO DP EQ FR GS
					HT IU JV KW LX MY
					NZ OA PB QC RD SE
					TF UG VH WI XJ YK
					ZL AM
	Returns all possible letters whose 5-				
BINARY_WOF	bit binary form could match a given 5-	See four examples to the r	ight		
	cell array, treating blank cells as	acc rour examples to the b	-6		
DIMMINI_WOI	cell diray, creating blank cells as				
BINAKT_WOT	unknowns.				Input: Output:
DIMINI_WOI	unknowns.				0 0 1 BCJK
DIMMIT_MOI	unknowns.				0 0 1 BCJK 1 1 IKMOY
DIMINI_MOI	unknowns.				0 0 1 BCJK 1 1 1 IMMVY 1 0 1 0 TV
DIMINI_MOI	unknowns.				0 0 1 BCJK 1 1 IKMOY

aesar shift:				
		Letter	Morse	
Some word:	PRIMERO	Α	•-	
Some Caesar shift:	3	В	-•••	
The result:	SULPHUR	С	-•-•	
		D	-••	
convert letters using a lookup table:		E	•	
		F	• • - •	
Some word:	MOOT	G	•	
That word in Morse:		Н	••••	
Another word:		I	••	
The other word in Morse:	••••	J	•	
Okay one more time:	EXAMPLE	K	-•-	
In Morse:	• -••- • •• •	L	•-••	
		М		
find letters where two words agree:		N	-•	
		0		
First word:	HELLO	Р	••	
Second word:	WORLD	Q	•-	
Common letters:	L	R	•-•	
		S	•••	
reverse a string:		Т	-	
		U	• • -	
Some word:	REVILED	V	•••-	
That word, reversed:	DELIVER	W	•	
		X	-••-	
sort the letters in a string:		Υ	-•	
		Z	••	
A word:	BESIEGING			
Sorted:	BEEGGIINS			
Sorted without repeats:	BEGINS			

You know those puzzles where you have two lists of clues, or maybe one list of clues and another list of things they should match?

Formulas and conditional formatting can make it significantly easier to keep track of which items you've paired, or whether your matches actually work.

For example, in this puzzle you can type your answer in column C, and automatically see whether its digits (as written on a phone) match something in the bank.

(By Tiralmo, who made this when I complained that all the examples I could think of would spoil an existing hunt puzzle.)

Clue	Answer	Digits	Bank	Lookup	table			
Awaken			276873	Α	2			
Impotent	UNABLE	862253	346948	В	2			
Showed surprise			427733	С	2			
Idiot	DUMMY	38669	727437	D	3			
Sword			752837	Е	3			
Hawk, e.g.	FALCON	325266	862253	F	3			
				G	4			
				Н	4			
				1	4			
				J	5			
				К	5			
				L	5			
				М	6			
				N	6			
				0	6			
				Р	7			
				Q	7			
				R	7			
				S	7			
				Т	8			
				U	8			
				V	8			
				W	9			
				Х	9			
				Y	9			
				Z	9			

Source	e:												Big	ıram	fino	der:																			
nttps://	202	<u>1.ur</u>	ndpı	uzzl	e.cl	ub/p	uzz	le/cı	razy	-eig	hts.l	html	Α	В	(en	ter t	wo	lette	ers to	o hi	ghlig	ght a	ıll pl	ace	s in	the	grid	wh	ere	they	're a	adja	cent	t)	
J	Υ	L	R	L	ı	Α	V	E	1	0	Т	Е	ı	R	Т	I	Α	0	Е	N	Е	Т	S	N	0	Е	N	Α	N	S	Α	R	R	R	D
R	Х	G	Р	D	0	ı	Х	М	E	Е	Α	S	С	F	0	Α	Α	Α	Е	R	М	Н	N	L	S	ı	S	Е	N	S	D	V	ı	0	Α
0	Е	0	Α	Z	R	В	N	0	G	W	Е	0	F	F	٧	N	D	Е	N	Н	Р	N	Т	S	0	U	S	Т	1	Е	R	Z	N	0	X
S	N	Т	0	Α	U	М	0	G	E	N	R	R	0	W	ı	Α	R	N	Е	N	U	W	U	U	N	В	0	Е	N	R	ı	ı	Υ	G	С
0	0	S	ı	D	Е	U	W	Α	1	ı	ı	D	ı	Р	U	R	Е	Т	Т	U	С	Е	С	J	0	R	В	С	0	С	1	N	G	В	S
Y	F	Υ	N	Р	Т	L	R	L	R	Α	Е	В	N	Α	Α	U	Α	R	Υ	0	Е	Е	S	Α	Р	М	W	Е	Т	R	Ν	N	Υ	U	K
ı	Р	Е	М	Α	U	0	N	0	1	Н	Ν	Α	0	Т	L	G	E	М	L	R	Н	Q	0	R	0	Е	Т	N	ı	Е	0	D	N	R	Е
ı	Α	K	0	L	0	G	R	D	Е	R	Α	L	U	Р	D	Н	0	Α	ı	0	Е	Α	ı	Α	0	Н	U	R	Α	Т	U	Α	0	Т	G
R	В	S	ı	Q	R	0	ı	Т	Z	Z	Α	R	G	Н	ı	Ν	Ν	Е	0	L	Е	L	U	Т	G	Н	ı	0	Α	Α	R	Н	Α	Е	Α
1	W	Е	Ν	Α	J	М	G	Т	1	Е	Ν	S	1	Н	R	Α	Z	Н	L	О	Υ	1	Е	s	Α	N	0	В	Α	Α	Α	R	0	0	N
М	Е	0	Ν	Ν	Α	Е	R	Т	Н	Α	ı	Е	Ε	G	٧	S	С	Т	R	В	Ν	U	Е	Х	Α	R	Т	Н	Е	Ν	О	L	Т	Е	F
Α	S	G	Е	Α	Υ	Т	Q	L	1	Α	С	1	Α	F	Υ	Α	Ν	Е	С	N	R	Е	Е	R	Ε	L	Α	N	S	Т	О	N	М	Р	Н
R	Е	Т	Е	L	R	S	S	0	E	W	S	С	Α	Е	Ν	D	S	K	D	J	U	N	Т	Α	0	D	U	Т	G	Е	О	L	N	0	Х
Α	Е	N	Т	Α	U	U	S	G	0	W	Т	Е	N	1	Н	Н	Υ	В	Н	0	N	U	1	Ν	В	S	С	L	R	R	E	N	Р	E	0
R	G	Н	В	N	С	N	R	L	Т	М	0	Р	Р	Т	0	F	0	1	J	S	W	S	Е	С	W	ı	R	L	S	٧	Z	1	N	0	R
0	D	G	S	U	R	L	L	Е	N	R	0	М	L	1	Т	Z	Ε	N	Υ	Α	М	G	L	Е	1	R	S	S	0	Н	Ν	N	N	L	Е
E	G	N	U	Α	Е	Е	0	Α	D	Е	Е	Α	Α	Е	G	Υ	R	L	ı	Т	1	s	Р	R	Е	S	F	Е	L	В	D	Υ	М	L	Е
0	Т	Α	М	0	Н	S	ı	Х	Α	Р	Е	М	s	Н	R	1	٧	N	Α	Н	Е	Α	R	Α	Α	0	Z	Υ	s	М	М	В	Α	R	W
0	Α	S	J	Α	0	Α	Е	1	Т	Α	М	Н	Н	N	0	Α	Z	S	0	N	Н	Е	U	L	Q	М	0	D	G	N	1	Е	Α	U	1
E	Е	Т	W	Т	М	В	R	U	W	Q	С	Α	0	N	N	0	Т	Е	С	N	1	R	Α	Ε	L	Т	Α	N	Е	Е	Α	Е	L	W	L
1	N	Α	Е	L	Α	Α	N	٧	0	0	U	ı	N	I	М	Α	L	Е	0	N	U	I	Α	0	Α	В	Α	U	Е	R	ı	N	U	U	0
s	ı	s	Р	U	Ι	Е	В	Е	Α	L	0	N	Α	0	Α	Ε	В	Α	Е	J	Х	L	U	Е	K	Α	Χ	0	R	Α	R	U	Р	D	Е
ı	D	D	Α	1	N	R	Е	N	В	R	R	С	Ε	U	N	Е	N	Т	W	Е	D	D	Α	Α	Н	Е	1	0	R	0	Т	S	S	Т	F
s	D	0	L	s	0	L	0	Х	0	Е	D	ı	Ε	Е	U	Т	Н	U	N	Е	N	0	ı	В	М	D	Т	J	G	Α	Α	D	Υ	R	G

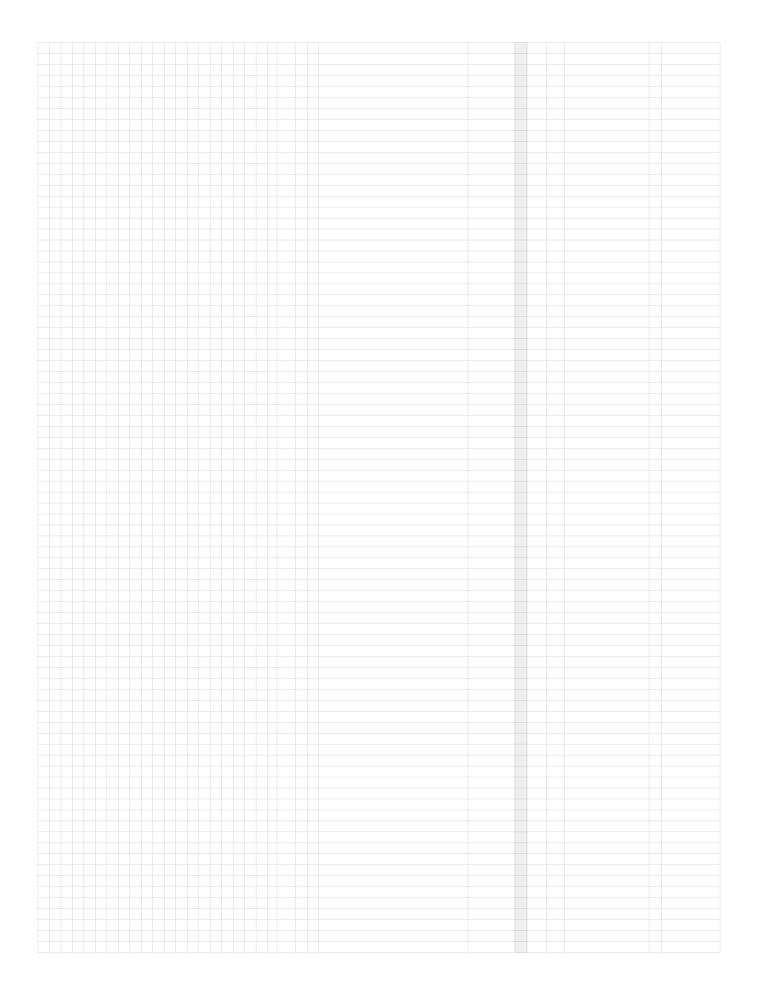
\ sı	udol	ku.			urce							You can use conditional formatting to
				http	os://	ww\	v.gr	<u>npuz</u>	zzle	s.co	m/b	log/2020/11/sudoku-by-zoltan-horvath-2/
		9			7			1				
	8			9		5			2			
			3		5		4					automatically highlight errors.
		6						5				
	9	2							6			
		7						3				
Ī			4				3					
	1			8		2			4			
		2			6			7				
b	attle	shii	p.	So	urce	):						
							v.an	าอม	zzles	s.co	m/b	log/2020/08/battleships-by-jinhoo-ahn/
Ī			Χ					Χ	X	X		color-code cells,
-												
$\dashv$			•				•			•	0	highlight easy deductions,
											0	ingringrit easy deductions,
-								•			U	and keep track of ships.
$\dashv$		X									1	and keep track of ships.
$\dashv$		^						•				
								•			1	
4												
							•					
_		•					•	X	X			
		2	2		3	3		4	4			
st	tar b	attl	e.	So	urce	<b>:</b>						
				http	<u>)/:os</u>	<u>ww</u>	v.gn	npuz	zzle	s.co	m/b	log/2020/12/star-battle-by-jinhoo-ahn-3/
								Х				automatically shade cells around a star
Ī			Х									
$\dagger$												
$\dashv$												
									_			
1												

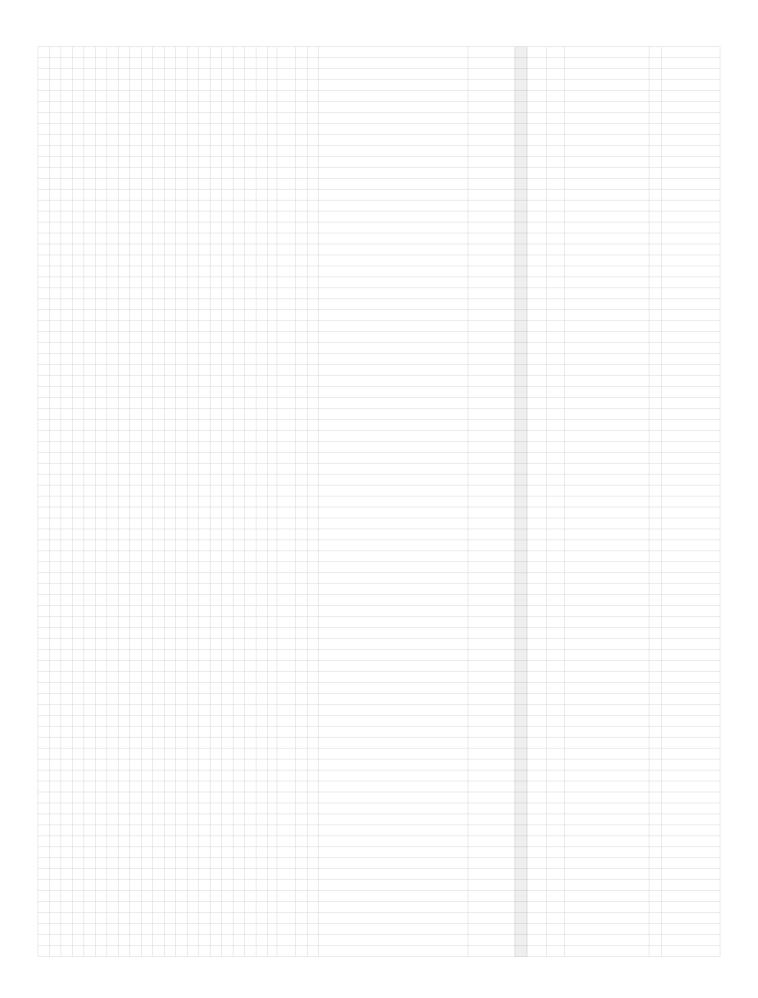
			http	os://	mel	owr	nelo	n.w	ord	s.com/2009/09/01/puzzle-12/
	1									automatically indicate illuminated cells,
								1		
		•						1		
			1 2	2 X	X				٠	highlight satisfied clues,
				^						
		•				1	Χ			and highlight broken clues.
						Χ				
	1	2							1	
E	Х	Р	Ε	R	I	Е	N	С	Ε	
F	Α	С	ı	L	ı	Т	Α	Т	Ε	
U	N	ı	L	Α	Т	Е	R	Α	L	It's also good for highlighting
U	В	ı	Q	U	1	Т	0	U	S	letters in an extraction grid.
Т	Е	С	Н	N	0	L	0	G	Υ	
М	Α	N	Α	G	Е	М	Е	N	Т	
Р	Н	Е	N	0	М	Е	N	0	N	
Α	S	S	U	М	Р	Т	I	0	N	
W	Н	Α	Т	S	0	Е	V	Е	R	
F	0	R	М	1	D	Α	В	L	Ε	

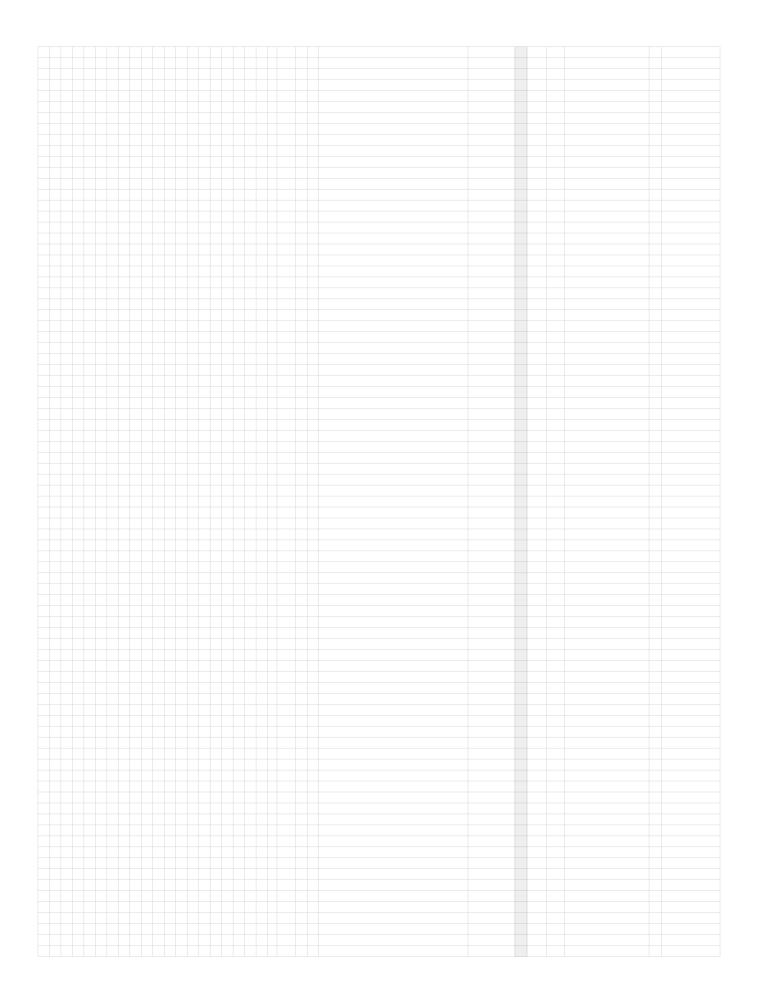
C		Α		Α		С	E		A							
F		Е		ł	1	D	1	L	Е	Ł						
L	0	F	Đ	N	Ŧ	1	0	N	G	0	ı					
0	0	N	М	Р	Т	Т	R	N	Р	Q	0					
S	Т	R	0	R	U	Z	Z	0	Т	S	U					
С	0	N	D	1	Т	1	0	N	Α	L						
				Ν	0	Р	Е									

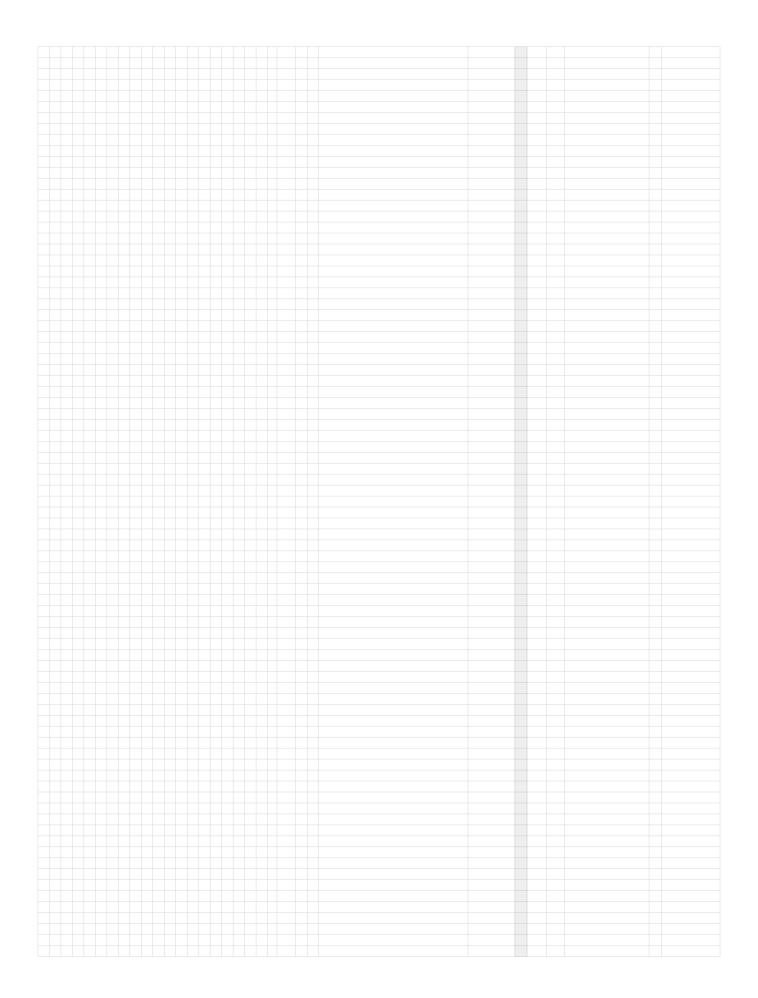
	al formatting can make it easier.							
ce: https://www.nytimes.com/pre								er to move used clues to the bottom.
	Enter numbers here to copy the frag	ments ove	r⊋	(Sums turn red if they're not satisfied.)		(Don't I	nide	them, or you'll hide rows from crossword grid t
		Sum	#1 #2	Clue	Answer	Used #	ŧ	Fragment
		9		Disney Deer	BAMBI	0	1	Common order of
		14		Sin Of party for men		0	2	With needles
		22	13 14	College whose name is an anagram of Drea	m MADRE	1	3	Deer
		25		??		0	4	Animal
		33		??		1	5	Of party for men
		39		??		1	6	Disney
		45		??		0		Out of marble
		47		??		0		Basketball
		50		??		1	9	Sin
		59		??		0	10	With a good memory
		61		??		0	11	Block from a
		63		??		0	12	"Moving right"
		64		??		1	13	College whose name is an anagram of
		65		??		1		Dream
	B A M B I	66		??		0	15	Person who
		69		??		0	16	Henry
		74		??		0	17	Distinctive feature of
er grid shades in as you fill out	the upper grid:	75		??		0	18	Recall
84 137 95 25	69 64 170 81 45	76		??		0	19	Speaker with a famous
	128	78		??		0	20	Kind
		80		??		0	21	Roses or doughnuts
66	110	81		??		0	22	Rudolph
		84		??		0	23	In fiction
50	155 87 59	86		??		0		Musical
		87		??		0	25	Unusually
76 154	75 159 98	93		??		0		Lettuce but not carrots
		95		??		0	27	Music maker
86		98		??		0	28	Subway
		100		??		0		Fight
130 63	78 93	105		??		0		Trellis
		110		??		0		Florida
22 161 139	80 133	125		??		0		Little
		126		??		0		Person with a
65	9	128		??		0		Number
		130		??		0		College athlete
105	39	133		??		0		A deadly
		137		??		0		That holds a bag
		139		??		0		Fine
		146		??		0		Freezer tray
		154		??		0		Cut
		155		??		0		Sheepskin
				??				At the bottom of a column
		159				0		
		161		??		0		VIII, for one
		170		??		0		Drinking vessel
						0		About dogs
						0		Occasion for a
						0		Rider
						0		Abbr. that may appear after a
						0		Preaches
						0		Noted writer of fiction
						0		Perfect
						0		Duck
						0		Word that may follow
						0		School parade
						0		Crane
						0		Neat, as a
						0		Show to be false or
						0		Wooden
						0		Time to collect
						0		Low digit
						0		Gun
						0		Instrument with a bellows
						0		Pattern
						0		In an Italian city
						0		Ivory
						0		Record
						0	67	Hamster
						0	68	Push out of bed?
						0		Candy
						0		Protective covering for a
						0		Church
						0		Film hero with a machine
								It's white and makes
								Coast neighbor
						0		Of an airplane
						0		Play executed in mid-air
						0		Under par

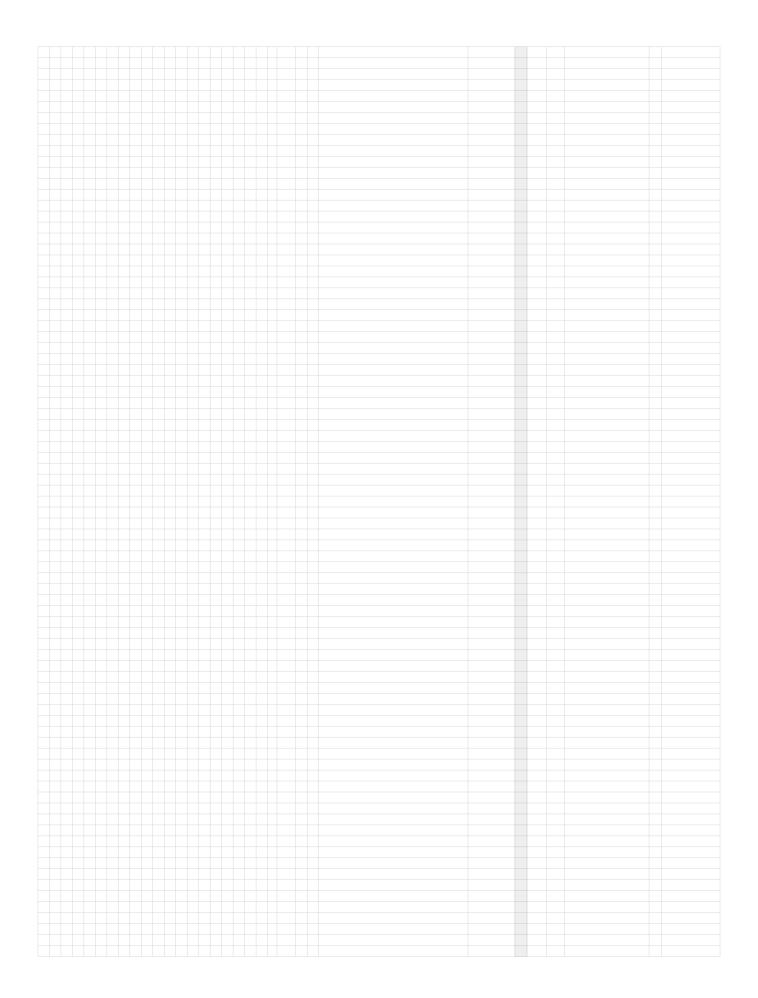
								0	79	Like	
								0	80	Front part	
								0	81	Tree with cones?	
								0	82	Square	
								U	02	Square	
										Who shares a name with a ca	r
								0	84	Score of two	
								0	85	Plants	
								0	86	Rain	
								0	07	President	
								U	01	President	
								0	88	Players	

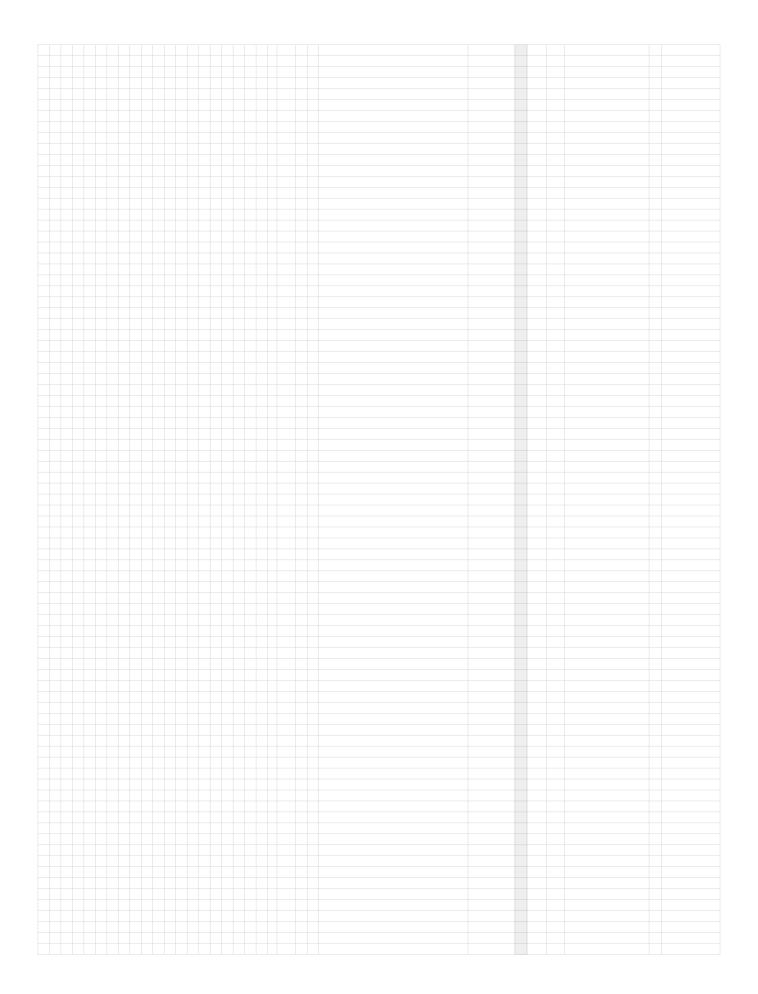


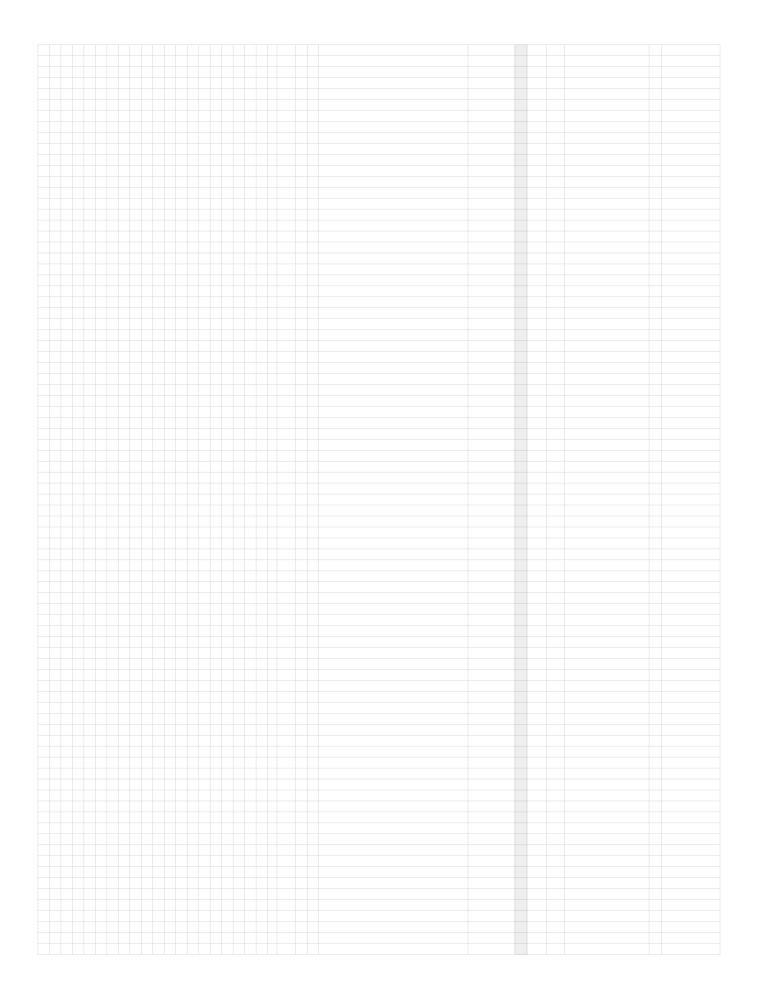


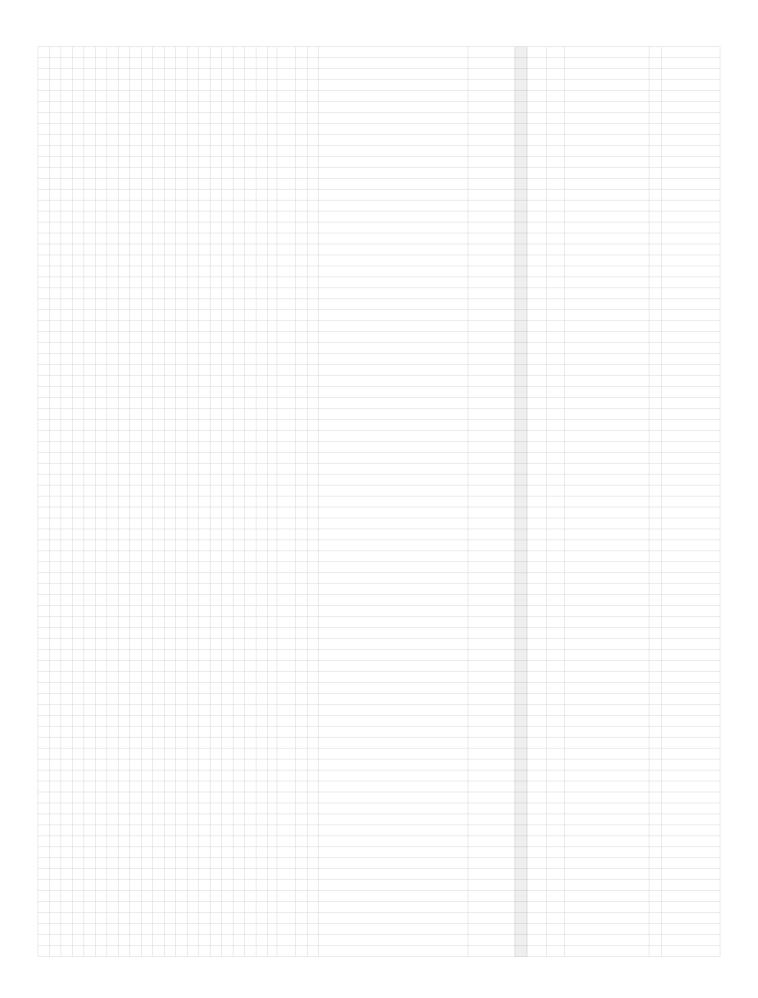


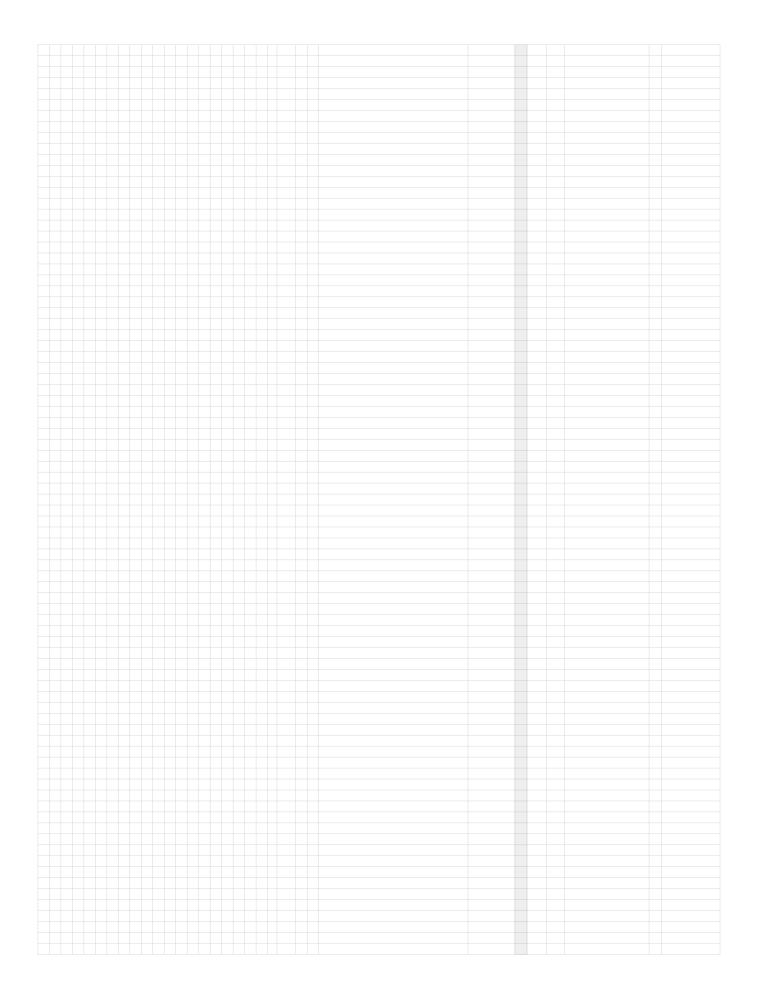


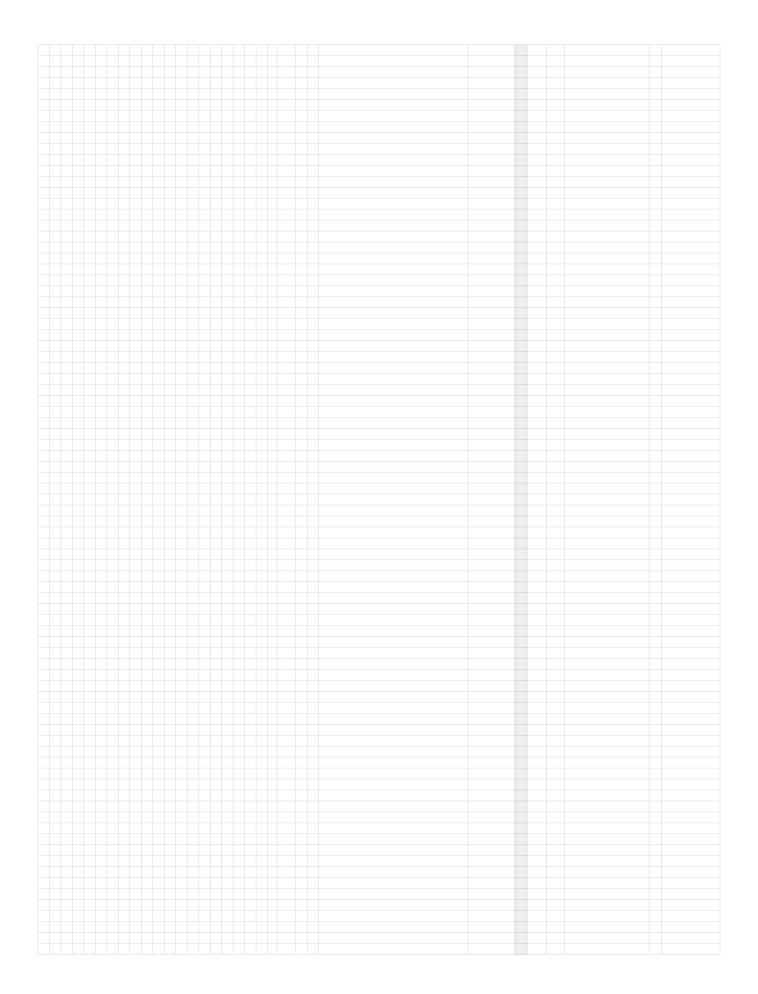


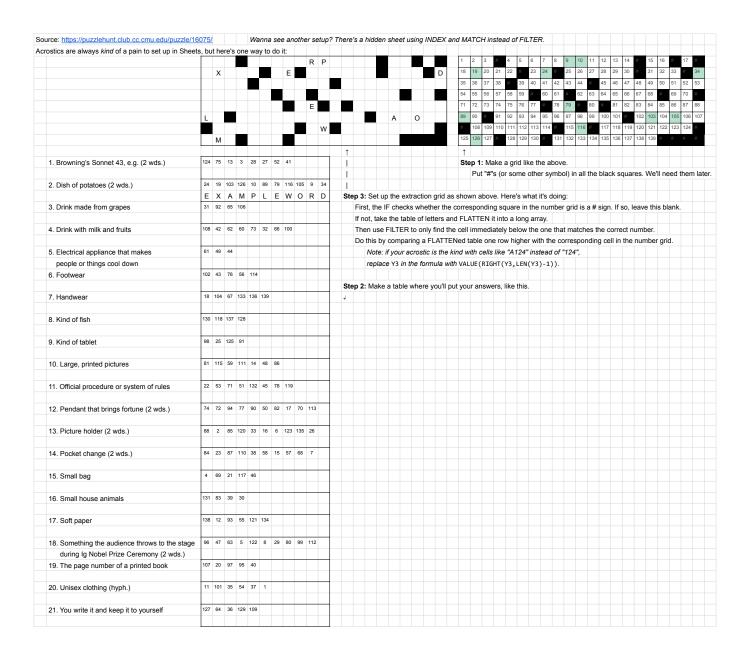












		iloioiiiicu, ci	onational formation	g and formulas can make extraction faster and le	533 61101	profic.
	ns F, J, and K to see what's going on.					
	how the puzzle works.					
Answei	- ' '	Num	Answer	Clue	Enum	
CART	Helpful device for shopping	4	SENTIMENT	Tender or romantic emotion	9	
	Pirate's storage container	1	THAILAND	Country in Southeast Asia	9	← One non-spoilery feature: automatic enumeration checking.
	Test version	1		Benjamins	9	
	Currency denomination smaller than a dollar	1		Someone with a lot of property	9	
	Complete	6		Settings of many horror movie scenes	10	
	Sad	6		National pride	10	
	State also known as "the zone"	4		Type of art or architecture	10	
	Fraction of an SI base unit	3		Commonly referred to	10	
	Sage, for instance	3		Water intaking machine that eases dry skin	10	
	Spanish greeting	3		Mysterious, despite investigation	11	
	Unit of speed	6		Computer component	11	
	Opposite of dark	5		Educational grant	11	
	Longer than a yard	5		Scripting or brainwashing	11	
	Technical standard or skirt	5		Commotion	11	
	Most frequent	5		A narrow tube	9	
	International alliance	4		Oriental area of a city	9	
	Nice way to describe something small?	5		Famous ship of the Pilgrims	9	
	Prescription unit	4		Type of jelly or oil	9	
	Undecorated	3		Famous Beatle	9	
	All according to	1		Product used to make non-Newtonian fluid	10	
	Give up	5		Contest participant	10	
	MOBA game developer	5		Pleasing or charming	10	
	Part in a movie	4		Omnipresent	10	
	Review symbol	5		Wealthfront alternative	10	
	Temporary accommodation	1		Delta accumulations	9	
	University period	5		Clear, level space, often by the seaside	9	
	zone	6		Concern of HR departments	9	
	legend	3		Unspeakable villain	9	
	Word class	5		Large musical group	9	