

ACROSS

1. Soft parts of fruits, as you might not prefer in juices
6. Oz. and kg.
9. Org. founded in 1915
12. Fencing swords
13. Mathematician William Feller or Branko Grunbaum, e.g.
15. ___ and outs
16. "I study networks and connections"
18. Alternative to a coffee break
19. Kissers
20. "Messiah" composer
21. CMU online education program
22. What Newton's method produces (abbr.)
23. Scientific American or American Scientist, e.g. (abbr.)
24. Opposite of NNW
25. Class of intracellular calcium channels found in animal muscle tissues
26. "I study shapes in space"
29. Encl. with a manuscript
30. Borden Dairy Company spokesperson
31. Pants that go down to the shins
33. "I study how to count things"
36. Qualification, or cautionary detail
37. Beach
38. They come in India Pale and Amber varieties
39. "I study shapes and spaces"
43. Player that predates DVD/Blu-Ray players
44. Org. headquartered in Providence, RI
47. Button found on a remote for a 43-Across
48. ___-image or ___-conditioning
49. Where you'll find Fr. and Sp.
50. Aleph or Pi, for example
52. Classic Pontiac muscle cars
53. ___ carte
54. "I study certain measures"
56. You might get stuck in one, alas
57. One who prays to Vishnu
58. Al ____ (pasta specification)
59. When doubled, an African fly
60. Had lunch, say
61. Building block toys

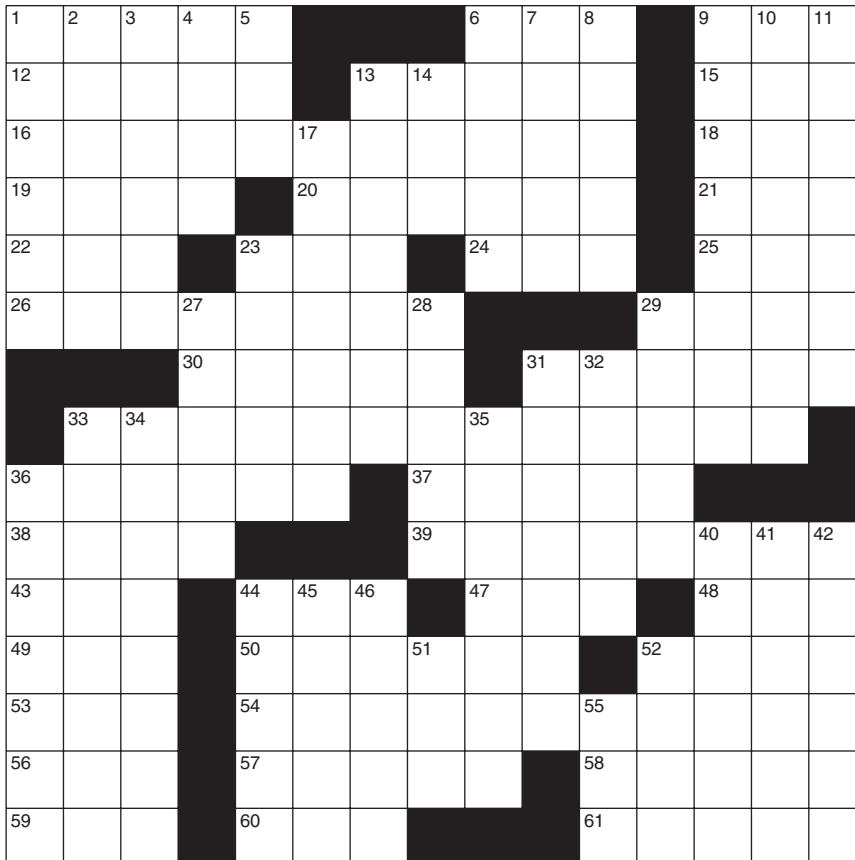
DOWN

1. Partner with an eye patch and hook, perhaps
2. Revolt
3. Arrive at too quickly, as in a conclusion
4. Livens (up)
5. UNIX command for a secure remote login
6. Tiger on the links
7. Resets the scale to zero
8. Way to do your hair
9. Portion of a circle's circumference measuring less than 180 degrees
10. "I study the underpinnings of 33-Down"
11. Hopes (to)
13. Distress caused by embarrassment
14. Stimp's cartoon pal
17. "Eureka!"
23. ____ toast
27. "Forever Alone" and "Scumbag Steve" and "Grumpy Cat" and all manner of other annoying internet popularities
28. Supply for bakers and brewers
29. Sales pitch
31. Oscar nominee from "Silver Lining's Playbook", as you'd see him listed in a phonebook
32. ____'s Impossibility Theorem: result concerning fair elections
33. "I study change"
34. Assign too nice a grade to, perhaps
35. American transcendentalist writer of "Walden" and "Civil Disobedience"
36. What you'll find on the walls in Lascaux, for instance
40. Choosing to join, with "in"
41. Cave, as stolen from Italian
42. Repetitively enthusiastic phrase of excitement
44. Wolfram ____
45. Type of scholarship for academic achievement
46. ____-Cech compactification
51. As yet unannounced, like a schedule
52. Delight, or a popular Fox TV show about a singing group
55. Vectorized and numerical programming code commonly used with large datasets, as in image processing

What Do You Study?

BRENDAN W. SULLIVAN

Emmanuel College
Boston, MA 02115
sullivanb@emmanuel.edu



Clues are at left, on page 370. The solution is on page 397.

Extra copies of the puzzle, in both .pdf and .puz (AcrossLite) formats, can be found at the Magazine's website, or (temporarily) at <http://www.mathematicsmagazine.org>.

Holing, Kent, P1918 (147)
 Hysnelaj, Enkel and Elton Bojaxhiu, S1895
 (152), P1921 (227), S1906 (383)
 Ibragimov, Shohruh, S1899 (232)
 Karachik, Valery and Leonid Menikhes,
 P1923 (228)
 Kouba, Omran, S1887 (66), P1924 (228),
 S1903 (291)
 Kröger, Tim and Rudolf Rupp, P1925 (228)
 Mabry, Rick, Q1034 (289)
 Menikhes, Leonid and Valery Karachik,
 P1923 (228)
 Missouri State University Problem Solving
 Group, S1896 (229)
 Moore, Tom, Q1026 (65), Q1029 (148)
 Oman, Greg, P1934 (382)
 Plaza, Ángel, P1929 (289)
 Roelants, Herman, Q1031 (228)
 Rupp, Rudolf and Tim Kröger, P1925 (228)
 Sîntămărian, Alina, Q1030 (148)

ShahAli, H. A., Q1028 (65), P1916 (147),
 P1926 (288)
 Siehler, Jacob A., Q1027 (65)
 Sinefakopoulos, Achilleas, S1908 (385)
 Singer, Nicholas C., S1907 (384)
 Smith, John H., S1890 (70)
 Smotzer, Thomas and Jacek Fabrykowski,
 Q1035 (382)
 Tomper, Bob, S1909 (386)
 Trenkler, Dietrich and Götz Trenkler, P1915
 (64)
 Trenkler, Götz and Dietrich Trenkler, P1915
 (64)
 Trenkler, Götz and Oskar Maria Baksalary,
 S1904 (292)
 Viteam, Traian, S1892 (149)
 Wagon, Stan, P1913 (64), P1935 (382)
 Wetzal, John E., P1931 (381)
 Yilmaz, Abdurrahim, P1919 (147)

Solution to puzzle on page 371:

1	P	U	L	P	S				6	W	T	S		9	M	A	A	
12	E	P	E	E	S		13	C	R	O	A	T		15	I	N	S	
16	G	R	A	P	H	T	17	H	E	O	R	Y		18	N	A	P	
19	L	I	P	S		20	H	A	N	D	E	L		21	O	L	I	
22	E	S	T		23	M	A	G		24	S	S	E	25	R	Y	R	
26	G	E	O	M	E	T	R	Y		28				29	S	A	S	E
				30	E	L	S	I	E		31	C	A	P	R	I	S	
		33	C	O	M	B	I	N	A	T	O	R	I	C	S			
36	C	A	V	E	A	T		37	S	H	O	R	E					
38	A	L	E	S				39	T	O	P	O	L	O	G	Y		
43	V	C	R		44	A	M	S		47	R	E	W		48	P	R	E
49	E	U	R		50	L	E	T	51	T	E	R		52	G	T	O	S
53	A	L	A		54	P	R	O	B	A	B	I	L	I	T	Y		
56	R	U	T		57	H	I	N	D	U		58	D	E	N	T	E	
59	T	S	E		60	A	T	E				61	L	E	G	O	S	