## ACROSS

1. Soft parts of fruits, as you might not prefer in juices
2. Oz. and kg.
3. Org. founded in 1915
4. Fencing swords
5. Mathematician William Feller or Branko Grunbaum, e.g.
6. --- and outs
7. "I study networks and connections"
8. Alternative to a coffee break
9. Kissers
10. "Messiah" composer
11. CMU online education program
12. What Newton's method produces (abbr.)
13. Scientific American or American Scientist, e.g. (abbr.)
14. Opposite of NNW
15. Class of intracellular calcium channels found in animal muscle tissues
16. "I study shapes in space"
17. Encl. with a manuscript
18. Borden Dairy Company spokescow
19. Pants that go down to the shins
20. "I study how to count things"
21. Qualification, or cautionary detail
22. Beach
23. They come in India Pale and Amber varieties
24. "I study shapes and spaces"
25. Player that predates DVD/Blu-Ray players
26. Org. headquartered in Providence, RI
27. Button found on a remote for a 43-Across
28. _---image or _---conditioning
29. Where you'll find Fr. and Sp.
30. Aleph or Pi, for example
31. Classic Pontiac muscle cars
32. --- carte
33. "I study certain measures"
34. You might get stuck in one, alas
35. One who prays to Vishnu
36. Al $\qquad$ (pasta specification)
37. When doubled, an African fly
38. Had lunch, say
39. 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)
12. Distress caused by embarrassment
13. Stimpy's cartoon pal
14. "Eureka!"
15. $\qquad$ toast
16. "Forever Alone" and "Scumbag Steve" and "Grumpy Cat" and all manner of other annoying internet popularities
17. Supply for bakers and brewers
18. Sales pitch
19. Oscar nominee from "Silver Lining's Playbook", as you'd see him listed in a phonebook
20. --_-_'s Impossibility Theorem: result concerning fair elections
21. "I study change"
22. Assign too nice a grade to, perhaps
23. American transcendentalist writer of "Walden" and "Civil Disobedience"
24. What you'll find on the walls in Lascaux, for instance
25. Choosing to join, with "in"
26. Cave, as stolen from Italian
27. Repetitively enthusiastic phrase of excitement
28. Wolfram
29. Type of scholarship for academic achievement
30. _-_--Cech compactification
31. As yet unannounced, like a schedule
32. Delight, or a popular Fox TV show about a singing group
33. Vectorized and numerical programming code commonly used with large datasets, as in image processing

# What Do You Study? 

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| 59 |  |  |  | 60 |  |  |  |  |  |  | 61 |  |  |  |  |  |

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)
Wetzel, John E., P1931 (381)
Yilmaz, Abdurrahim, P1919 (147)

Solution to puzzle on page 371:

| P | ${ }^{2} U$ | ${ }^{3} \mathrm{~L}$ | P |  |  |  |  | W | T |  |  | ${ }^{9} \mathrm{M}$ | ${ }^{10} \mathrm{~A}$ | ${ }^{11} \mathrm{~A}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{12} \mathrm{E}$ | P | E | E | S |  | ${ }^{13} \mathrm{C}$ | ${ }^{14} \mathrm{R}$ | O | A | T |  | ${ }^{15}$ | N | S |
| ${ }^{16} \mathrm{G}$ | R | A | P | H | ${ }^{17} \mathrm{~T}$ | H | E | O | R | Y |  | ${ }^{18} \mathrm{~N}$ | A | P |
| ${ }^{19} \mathrm{~L}$ | 1 | P | S |  | H | A | N | D | E | L |  | ${ }^{21}$ | L | 1 |
| E | S | T |  | M | A | G |  | ${ }^{24} \mathrm{~S}$ | S | E |  | R | Y | R |
| ${ }^{26}$ | E | 0 | M | E | T | R | Y |  |  |  | ${ }^{9} \mathrm{~S}$ | A | S | E |
|  |  |  | E | L | S | 1 | E |  | ${ }^{31}$ | ${ }^{32}$ | P | R | 1 | S |
|  | ${ }^{33} \mathrm{C}$ | O | M | B | 1 | N | A | ${ }^{35}$ | $\bigcirc$ | R | 1 | C | S |  |
| C | A | V | E | A | T |  | S | H | 0 | R | E |  |  |  |
| $\stackrel{38}{ }{ }^{3}$ | L | E | S |  |  |  | T ${ }^{39}$ | 0 | P | O | L | ${ }^{40}$ | ${ }^{41}$ | Y ${ }^{42}$ |
| $\stackrel{4}{43}$ | C | R |  | ${ }^{44}$ | ${ }^{4} \mathrm{M}$ | ${ }^{4}$ |  | R | E | W |  | ${ }^{48}$ | R | E |
| ${ }^{49}$ E | U | R |  | ${ }^{50} \mathrm{~L}$ | E | T | T | E | R |  | G | T | 0 | S |
| A | L | A |  | ${ }^{54} \mathrm{P}$ | R | O | B | A | B | I | L | 1 | T | Y |
| R | U | T |  | ${ }^{57} \mathrm{H}$ | 1 | N | D | U |  | ${ }^{58}$ | E | N | T | E |
| ${ }_{5}{ }^{\text {R }}$ | S | E |  | ${ }^{60} \mathrm{~A}$ | T | E |  |  |  | ${ }^{61}$ L | E | G | 0 | S |

