Problem #1: No Bull
Thank you to Ai Phung for this problem.
Recent storms in Houston, Texas, left many cattle farmers selling off their oxen earlier than expected. One cattle farmer decided to retire and gave all of his remaining 17 oxen to his three sons. The first son received half of the oxen, the second son was gifted one-third of the oxen, and the last son took control of one-ninth of the oxen. Can you solve this problem so that the solution is fair to the cattle farmer’s three sons?

Problem #2: The Birthday Boy
Thank you to Enrico Massoni for this problem.
Anthony was born on 1 March, but he is not able to remember the exact day of the week of his original day of birth. His mother is a mathematician, and she decided to help him to recover the exact date via a simple, but tricky, question. “Anthony, you were born on the first of March of a year that counts exactly 53 Saturdays and 53 Sundays.” On what day of the week was Anthony’s born?

Problem #3: Match Point
Thank you to Jonathan Alejandro Zea for this problem.
In the South American World Cup qualifiers, ten national teams participate (Brazil, Argentina, Chile, Uruguay, Colombia, etc.). How many matches are played if every team plays each other and every match is played as local and visitor?
Tip: Only focus on the qualifiers.

Problem #4: Time to Get a New Clock?
Thank you to Enrico Massoni for this problem.
Mark is an old-fashioned guy: he likes standard analog clocks. Unfortunately, this afternoon, his favorite object lost the arm that indicates the minutes, but it is still working properly. Furthermore, the hour hand is fixed in the location of the 23rd minute. Can you help Mark discover the correct time?

Problem #5: A Prime Situation
Thank you to Enrico Massoni for this problem.
Can you identify the smallest prime number for 192755802634 + 2937482702736?

If you have a problem for the Gamesman, submit it along with the solution to potentials@ieee.org. If we publish your problem, you’ll receive a free IEEE t-shirt, so please include your size. Thanks. Solutions are on page 6.