

Puzzle

As usual, we give our beloved readers two puzzles of Sam Loyd to do in their spare time. First, we will present you the solutions of the puzzles in the previous Aenorm.

The parade

The number of men marching when Casey was alive has to be a multiple of 2,3,4,5,6,7,8,9 and 10. We take the last multiple, which is 2520, then subtract this with 1 to get the number of members without Casey. In the story was given however that eleven wouldn't do. Since 2519 is divisible by 11 we have to move to the next highest multiple, 5040 and subtract it with 1 to get 5039. This is not divisible by 11 and higher multiples will give answers above 7000 so 5039 is the correct answer.

Primitive railroading

This problem itself wasn't too difficult, writing it down properly however was. Our readers have found several ways to write down the solution and although all of them were very creative, we will not write down the entire solution here since this will take up a lot of space. The right solution was 32 steps, or 30 steps when you assume the engines are in forward gear. The complete solution with all the individual steps can be requested by sending a mail to the editors.

There were several correct submissions for the puzzles above. By a lottery, the lucky winner is Pieter Schermers! The book token is coming your way, congratulations!

The new puzzles for this edition are:

A popular sport among econometricians

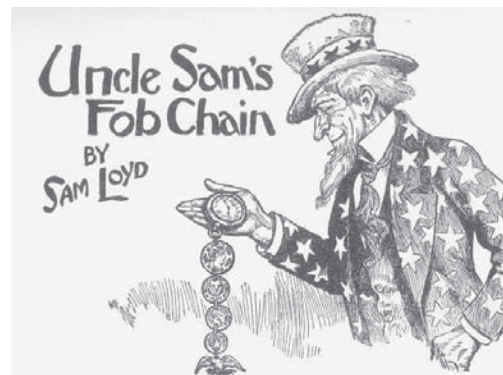
Every econometrician seems to play either golf or poker. Golf already was a very popular sport in the time of Sam Loyd. However, most econometricians are a bit lazy and try to exercise as little as possible. Luckily, they can use math to match both of their desires. Recently, a student trained on two different strokes of different length, one a drive, the other an approach, which he used to get to the hole as fast as he could. He plays directly to the hole and makes combinations of the stroke and the approach.

What should be the lengths of the strokes that makes the lowest score on a nine hole course of 150 yards, 300 yards, 250 yards, 325 yards,

275 yards, 350 yards, 225 yards, 400 yards and 425 yards? The ball must go through the full length of each stroke, but you're allowed to go beyond the hole with either stroke, then play back toward the hole. All strokes are on a straight line toward the hole.

Uncle Sam's Fob Chain

Very similar to the need of rappers to show their wealth by wearing ridiculous large golden objects around the neck, in the time of Sam Loyd it was a custom to carry a string of coins attached to a watch. Sam Loyd saw a very curious chain the other day. This chain consists of four coins and the figure of an eagle. The coins, as shown in the picture, were punched respectively with five, four, three and two holes, so that the small links which joined them together might have been placed differently. Since Sam Loyd was always interested in finding new puzzles, he immediately started calculating how many combinations of the watch and coins are possible. Each combination must consist of the watch, the four coins and the eagle and of course no two combinations can be the same. What was Sam's answer to this puzzle?



Solutions

Solutions to the two puzzles above can be submitted upto December 1st. You can hand them in in the VSAE room, room C6.06, mail them to info@vsae.nl or send them to VSAE, for the attention of Aenorm puzzle 56, Roetersstraat 11, 1018 WB Amsterdam, Holland. Among the correct submissions, one book token will be given. Solutions can be submitted both in English as in Dutch.