

Kwantlen Polytechnic University

Mathematics Problem of the Week

Problem number 269

Posted Monday November 16, 2015

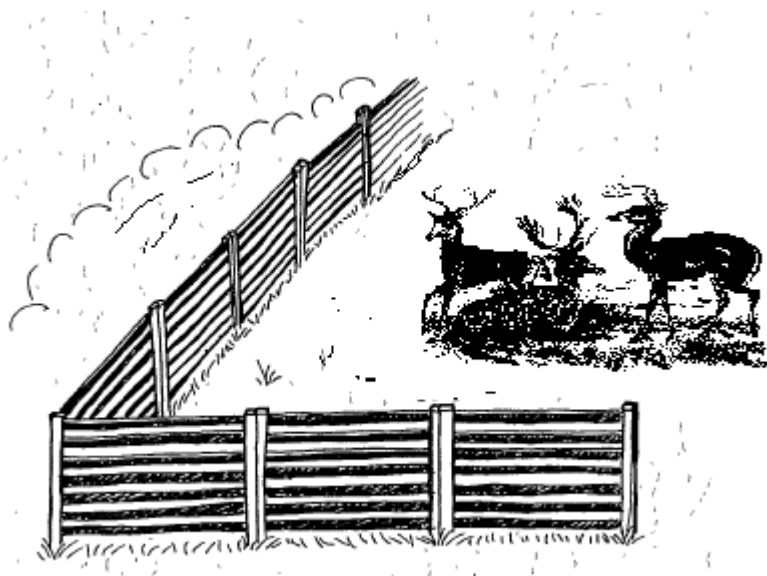
Submit by noon, Monday November 23, 2015



Game Reserve

The local environmentalists have proposed to protect their wildlife by convincing their senators to build a game reserve on a square field. They plan to enclose this area by building a wooden fence. The local lumber merchants have agreed to provide an unlimited supply of free wooden bars which are 2.75 yards long to the environmentalists. In order to stop the offspring of the wildlife from leaving the reserve the environmentalists plan to use seven bars in each section of the fence, also, use exactly as many bars as the field has acres. Help the senators determine what size the square field should be if there are 4 840 square yards in an acre. Express the length of a side in miles.

Note: There are 1760 yards in a mile.



Submit your solution by

- \$ emailing it to MathProblem@kpu.ca
- \$ putting it in the MPOW box in the Math Assistance Centre on the Surrey campus (library, main floor)
- \$ putting it in the MPOW box in The Learning Centre on the Richmond campus (located in the library)
- \$ giving it to Tariq Nuruddin (Surrey A3670)

Be sure to include your name. In order to be eligible for the prize, KPU students should also include their student numbers. Winners names will be posted on the Problem of the Week web page. You can have the Problem of the Week emailed to you each week. Just go to the website and sign up.

Web site: <http://www.kpu.ca/mathematics-problem-week> .