

Problem 6: Sets and Subsets

USMA D/Math Problem of the Week

Submission Deadline: 23 October, 2008 at 1600

Circle one: cadet faculty other

Problem Statement:

Let S be a subset of the set $\{1, 2, 3, \dots, 2008\}$ such that no two members of S differ by 6 or 11. What is the largest number of elements S can have?