



## Problem of the Week

### Problem E

#### Keys to Success

The Fine Arts High School Piano Club has 30 student members, some from Grade 11 and the remainder from Grade 12. Each pair of students from the club must play a piano duet together over the course of the year. When two grade 11 students play together, they need 2 hours of practice time. When a grade 11 and a grade 12 student play together, they need 3 hours of practice time. When two grade 12 students play together, they need 4 hours of practice time. In total, the students need 1392 hours of practice time.

How many of the 30 members of the club are Grade 11 students?

