Jar of Pennies

In an Algebra classroom, a teacher has created an estimation game using a jar of pennies. Six students remain in the contest. Each student makes one guess and their guesses are as follows: 62, 52, 59, 42, 49, 65. One guess is 12 away from the exact number of pennies in the jar while the other guesses are 1, 4, 6, 9, and 11 pennies away. Determine exactly how many pennies are in the guessing jar.

When you have solved this problem, go to Room 208 of Jordan Hall to present your solution to the Master Teacher. Be prepared to demonstrate your solution and explain your reasoning.