Each time the teacher will remove 2 numbers and sum those numbers and add 1 so at the end, the final number will consist of the sum of all numbers on the white board and each time repeats add 1

so

final number = sum of all number in the white board + ( count attempts until the list consist of one element \* 1)

Each time the teacher will remove 2 and add 1 so the white board will decrease by one each time so the number of attempts until the list consists of one element is (1 = 100 – X) = 99

final number = 10\*(1+2+3+4+5+6+7+8+9+10) + (99 \* 1)

final number = 550 + 99

final number = 649