Ms. Cross leads The National Math Club at the middle school where she teaches. At the first club meeting of the school year, 60% of the students in attendance were 7th graders. If there was one fewer 8th grader than 7th grader in attendance, how many students attended the first club meeting?

At the second club meeting of the school year, Ms. Cross noticed that among the students in attendance, there were equal numbers of 7th graders and 8th graders. Ms. Cross also noticed that all the students from the first club meeting were in attendance, along with some new students who weren’t at the first club meeting. If twice as many new 8th graders attended the second club meeting as new 7th graders, how many new students attended the second club meeting?

At the third meeting of The National Math Club, Ms. Cross noticed that 60% of the students in attendance were 8th graders and that the total number of students in attendance was double that of the first club meeting. Ms. Cross was pleased to see that all the students who attended the second club meeting also attended the third club meeting. Of the students in attendance at the third club meeting who did not attend the first two club meetings, what is the absolute difference between the number of 8th graders and the number of 7th graders?