

You may have chosen this answer because the difference between the middle and the smallest numbers is 1, and all three values add up to 25. However, to be correct the values need to make each of the conditions true. Let x = the smallest, y = the middle, and z = the largest number. The correct system with which to start is $x + y + z = 25$, $y - x = 1$, and $2y - z = 2$.