Method to Find Precise Median when there is a Duplication of Scores at the Median

1. Determine the real limits of the score that contains the “imprecise” median
2. Count the number of scores below the lower real limit of the “imprecise” median
3. Find the number of additional scores needed to reach exactly ½ of the number of scores in the distribution
4. Calculate a fraction: number of additional scores needed (Step #3) / total number of scores at the “imprecise” median
5. Add this fraction (#4) to the lower real limit of the “imprecise” median

EXAMPLE: 1,2,2,3,4,4,4,4,4,5

1. “Imprecise median” is 4 and its real limits are 3.5 – 4.5
2. There are 4 scores below 3.5
3. To get from 4 to 50% (5) you need 1 more
4. Fraction is $\frac{1}{5} = .20$
5. Add .20 to 3.5 for “precise” median of 3.7