Finding IQR when you have odd set of numbers Steps:

Sample question: Find the IQR for the following data set: 1, 2, 5, 6, 7, 9, 12, 15, 18, 19, 27.

- Step 1: Put the numbers in order. 1, 2, 5, 6, 7, 9, 12, 15, 18, 19, 27.
- Step 2: Find the median. 1, 2, 5, 6, 7, 9, 12, 15, 18, 19, 27.
- Step 3: Place parentheses around the numbers above and below the median. Not necessary statistically, but it makes Q1 and Q3 easier to spot. (1, 2, 5, 6, 7), 9, (12, 15, 18, 19, 27).
- Step 4: Find Q1 and Q3 Think of Q1 as a median in the lower half of the data and think of Q3 as a median for the upper half of data. (1, 2, 5, 6, 7), 9, (12, 15, 18, 19, 27). Q1 = 5 and Q3 = 18.
- Step 5: Subtract Q1 from Q3 to find the interquartile range. 18-5 = 13.

Finding IQR when you have even set of numbers

Sample question: Find the IQR for the following data set: 3, 5, 7, 8, 9, 11, 15, 16, 20, 21.

- Step 1: Put the numbers in order. 3, 5, 7, 8, 9, 11, 15, 16, 20, 21.
- Step 2: Make a mark in the center of the data: 3, 5, 7, 8, 9, | 11, 15, 16, 20, 21.
- Step 3: Place parentheses around the numbers above and below the mark you made in Step 2-it makes Q1 and Q3 easier to spot.
 (3, 5, 7, 8, 9), | (11, 15, 16, 20, 21).
- Step 4: Find Q1 and Q3
 Q1 is the median (the middle) of the lower half of the data, and Q3 is the median (the middle) of the upper half of the data.
 (2, 5, 7, 8, 0) | (11, 15, 16, 20, 21), 01 = 7 and 02 = 16

(3, 5, 7, 8, 9), | (11, 15, 16, 20, 21). Q1 = 7 and Q3 = 16.
Step 5: Subtract Q1 from Q3.

16 - 7 = 9.This is your IQR.