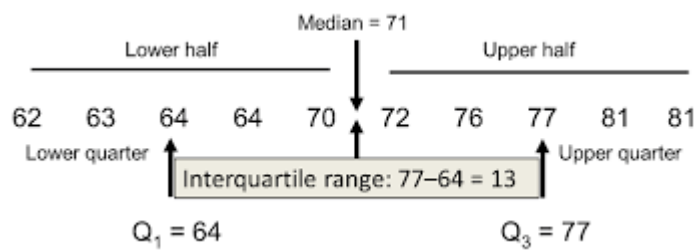The following data points represent the number of animal crackers in each kid's lunch box.

Sort the data from least to greatest.
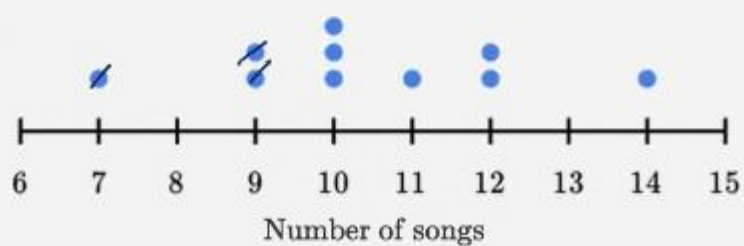
| 4 | 4 | 10 | 11 | 15 | 7 | 14 | 12 | 6 |

Find the interquartile range (IQR) of the data set.

Median = 71

Lower half | Upper half

62   63   64   64   70 | 72   76   77   81   81

Lower quarter ↑   ↑ Upper quarter

Interquartile range: 77–64 = 13

$Q_1 = 64$ $Q_3 = 77$

Find the interquartile range (IQR) of the data in the dot plot below.

[   ] songs

Songs on each album in Shane's collection

Number of songs

Give the Five Number Summary for the following data set:
1, 2, 2, 2, 3, 3, 4, 5, 5, 5, 6, 6, 6, 6, 7, 8, 8, 9, 27

[Lower Fence <---> Upper Fence]

Lower Fence = 3 – 1.5(4) = 3 – 6 = -3
Upper Fence = 7 + 1.5(4) = 7 + 6 = 13

Interquartile Range(IQR) = Q3 – Q1

$Q1\ Value\ \#=\dfrac{25}{100}=(19+1)=5th\ Value, which\ is\ 3$

$Q3\ Value\ \#=\dfrac{75}{100}=(19+1)=15th\ Value, which\ is\ 7$

$$IQR = 7 - 3 = 4$$