



Name: _____



Find the median, lower and upper quartiles and the interquartile ranges of these (**odd**) data sets:

a) 2, 3, 5, 9, 11, 12, 15

Median: **9** LQ: **3** UQ: **12** Interquartile range: **9**

b) 2, 6, 8, 13, 15, 18,
21, 23, 25, 29, 33

Median: **18** LQ: **8** UQ: **25** Interquartile range: **17**

c) 3, 3, 5, 7, 7, 9, 9, 10, 10,
12, 12, 14, 15, 17, 21

Median: **10** LQ: **7** UQ: **14** Interquartile range: **7**

d) 6, 7, 11, 14, 19, 21, 27

Median: **14** LQ: **7** UQ: **21** Interquartile range: **14**

e) 7, 9, 2, 15, 21, 6, 3

Order: **2, 3, 6, 7, 9, 15, 21**

Median: **7** LQ: **3** UQ: **15** Interquartile range: **12**

f) 5, 8, 1, 0, 13, 17,
6, 9, 10, 5, 4

Order: **0, 1, 4, 5, 5, 6, 8, 9, 10, 13, 17**

Median: **6** LQ: **4** UQ: **10** Interquartile range: **6**

Find the median, lower and upper quartiles and the interquartile ranges of these (**even**) data sets:

a) 1, 4, 5, 5, 8, 9, 9, 11, 12, 18

Median: **8.5** LQ: **5** UQ: **11** Interquartile range: **6**

b) 2, 9, 10, 12, 12, 15, 18,
19, 23, 25, 26, 31, 35, 39

Median: **18.5** LQ: **12** UQ: **26** Interquartile range: **14**

c) 3, 6, 8, 10, 14, 18, 24, 30

Median: **12** LQ: **7** UQ: **21** Interquartile range: **14**

d) 2, 7, 10, 13, 24, 25, 31, 33,
40, 44, 51, 53, 60, 62

Median: **32** LQ: **13** UQ: **51** Interquartile range: **38**

Order: **1, 3, 6, 7, 9, 11, 15, 18, 18, 26**

e) 1, 6, 15, 9, 18, 26,
3, 18, 11, 7

Median: **10** LQ: **6** UQ: **18** Interquartile range: **12**

f) 62, 54, 40, 37,
43, 19, 26, 64

Order: **19, 26, 37, 40, 43, 54, 62, 64**

Median: **41.5** LQ: **31.5** UQ: **58** Interquartile range: **26.5**

g) 92, 24, 108, 124, 84, 69,
76, 140, 86, 65, 95, 42

Order: **24, 42, 65, 69, 76, 84, 86, 92, 95, 108, 124, 140**

Median: **85** LQ: **67** UQ: **101.5** Interquartile range: **33.5**

Exam question:

April has 12 cards with numbers on it as shown.
What is the interquartile range of the numbers April has?

5	7	4	6	1	3
1	8	9	2	4	8

1, 1, 2, 3, 4, 4, 5, 6, 7, 8, 8, 9

$$\text{IQR} = 7.5 - 2.5 = 5$$

