

13 - 4

Measures of Variation

quartiles: numbers that separate
data into 4 equal parts



median: 2 equal parts

interquartile range: upper quartile
- lower quartile

Ex:



1 1 2 4 6 7 7 8 9 10 12 13 17 17 18

median: 8

UQ: 13

LQ: 4

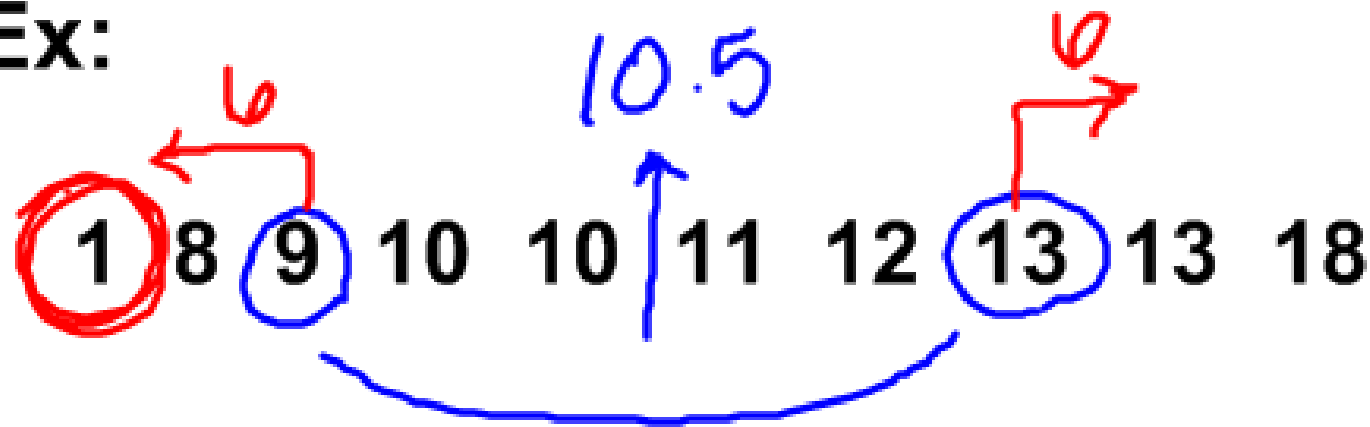
IQR: 9

outlier: 1.5 times IQR

less than LQ or
greater than UQ



Ex:

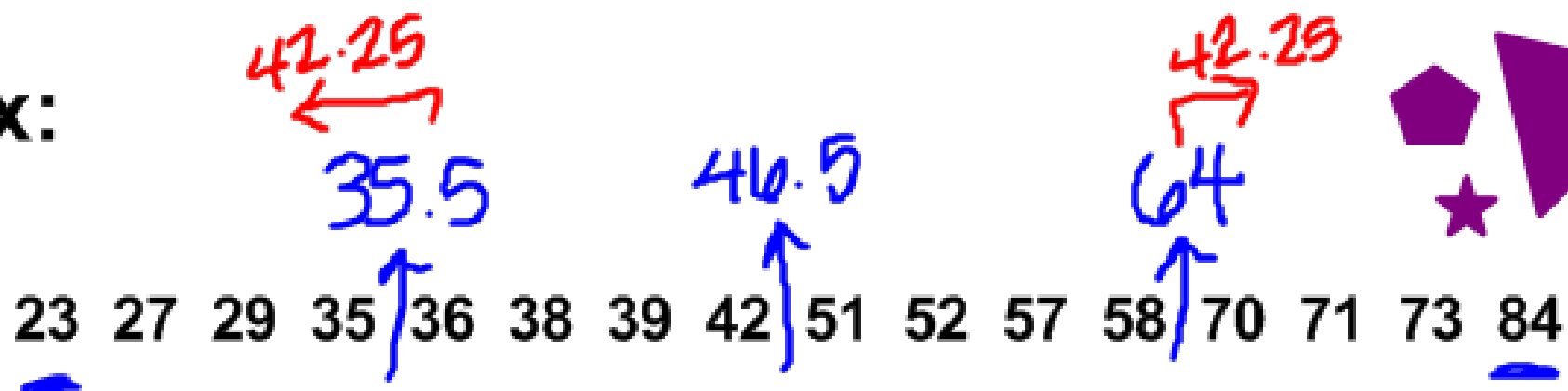


Any outliers?

1

$$IQR: 4 \times 1.5 = 6$$

Ex:



range: 61
median: 46.5
LQ: 35.5
UQ: 64
IQR: 28.5
outliers: none

$$28.5 \times 1.5 = 42.75$$



Homework:

p.734 #11 - 14