

For each of the following:

- Construct a frequency table and show the relative frequency for each piece of data
- Make a stem-and-leaf plot.
- Find the Median
- State the Upper and Lower Halves
- Find the 1st and 3rd Quartiles
- Give the 5 number summary
- Find the Interquartile Range
- Find the Range
- Draw a Box-and-Whisker Plot

1) { 23, 32, 24, 26, 37, 42, 28, 24, 35, 37 }

X	23	24	26	28	32	35	37	42
f	1	2	1	1	1	1	2	1
%	10%	20%	10%	10%	10%	10%	20%	10%

relative frequencies

B. Stem | Leaf

2	3 4 4 6 8
3	2 5 7 7
4	2

lower half 23, 24, 24, 26, 28, 30 *upper half* 32, 35, 37, 37, 42

MIN 23 *Q₁* 24 *med* 30 *Q₃* 37 *max* 42

C. 30

D. Upper Half 32, 35, 37, 37, 42
Lower Half 23, 24, 24, 26, 28

E. $Q_1 = 24$; $Q_3 = 37$

F. *MIN* 23, *Q₁* 24, *med* 30, *Q₃* 37, *max* 42

G. $Q_3 - Q_1 = 13$; IR = 13

H. *max - min* 42 - 23; R = 19

$Q_3 - Q_1 = IR$
(interquartile range)

5 number summary

F. 23, 24, 30, 37, 42

BOX is from Q₁ to Q₃

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2) { 12, 18, 19, 22, 26, 30, 15, 12, 18, 21, 22 }

x	12	15	18	19	21	22	26	30
f	2	1	2	1	1	2	1	1
%	18.2%	9.1%	18.2%	9.1%	9.1%	18.2%	9.1%	9.1%

B. Stem | Leaf

1	2 2 5 8 8 9
2	1 2 2 6
3	0

