

1984 Winter Olympics were held in Sarajevo, Yugoslavia. The table below lists the total number of gold, silver, and bronze medals won, by country.

List the data in order below:

1, 1, 2, 2, 3, 4, 4, 5, 6, 8, 8, 9, 13, 24, 25

Find the 5-number summary of the data.

Q1: 1.5 Med: 4 Q3: 8.5 Max: 25

Find the IQR.

$$8.5 - 1.5 = 7$$

What does IQR stand for?

Inter Quartile Range

Use the 1.5 IQR rules to find the outliers. SHOW ALL WORK!

$$7 + 1.5 = 10.5$$

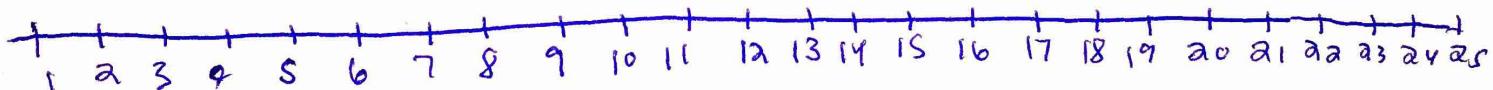
lower: $1.5 - 10.5 = -9$ (less than)

upper: $8.5 + 10.5 = 19$ (higher than)

Which countries are outliers?

East Germany & USSR

Construct a box plots of the data above on a number line.



Create a box plot from the set of numbers:

5, 40, 42, 46, 48, 49, 50, 50, 52, 53, 55, 56, 58, 75, 102

MIN: 5

MAX: 102

MED: 50

IQR: 10

$10 \cdot 1.5 = 15$

LOW OUTLIERS: 5

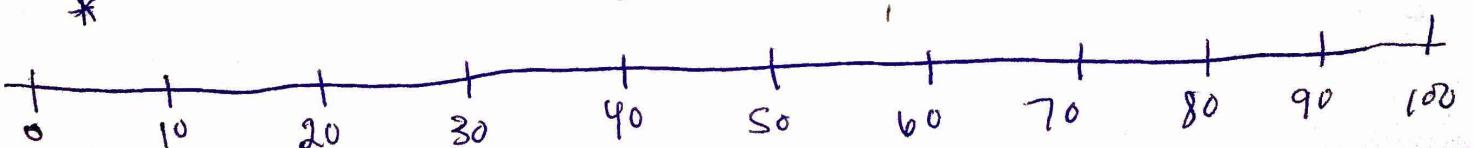
$46 - 15 = 31$

Q1: 46

HIGH OUTLIERS: 75, 102

$$56 + 15 = 71$$

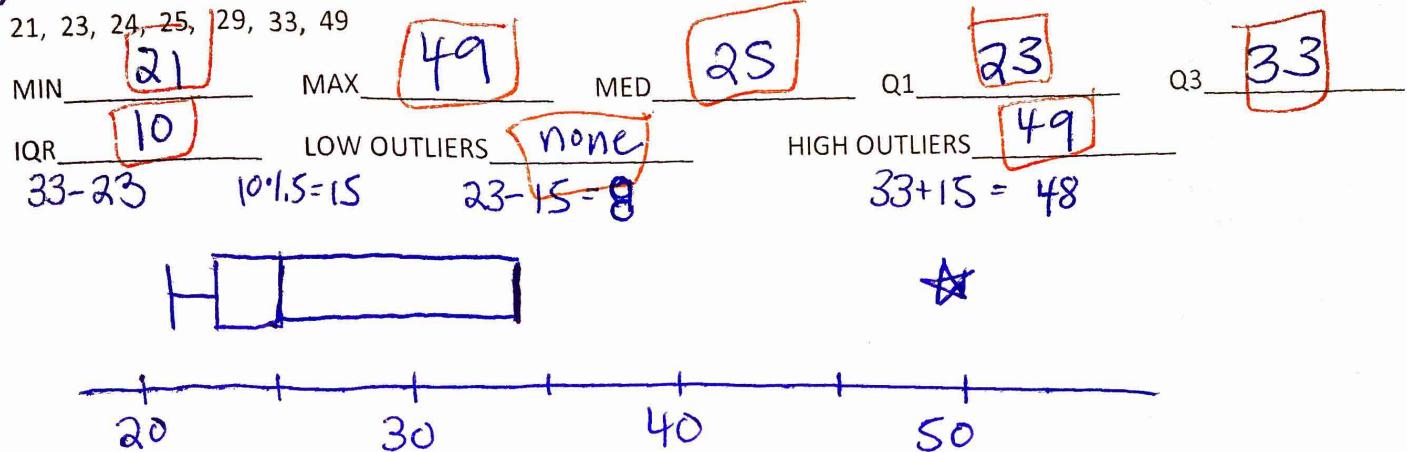
Q3: 56



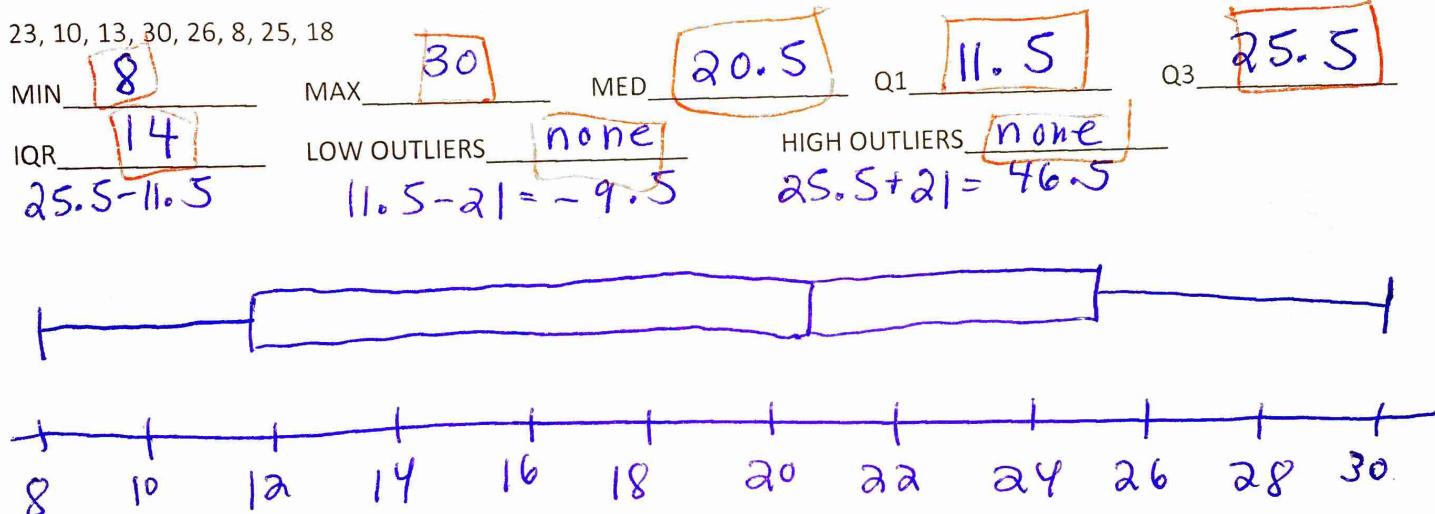
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COUNTRY	TOTAL MEDALS
Austria	1
Canada	4
Czechoslovakia	6
Finland	13
France	3
Germany, East	24
Germany, West	4
Great Britain	1
Italy	2
Japan	1
Liechtenstein	2
Norway	9
Sweden	8
Switzerland	5
USSR	25
United States	8
Yugoslavia	1

8. Create a box plot from the set of numbers:



10. Create a box plot from the set of numbers:



11. Create a box plot from the set of numbers:

