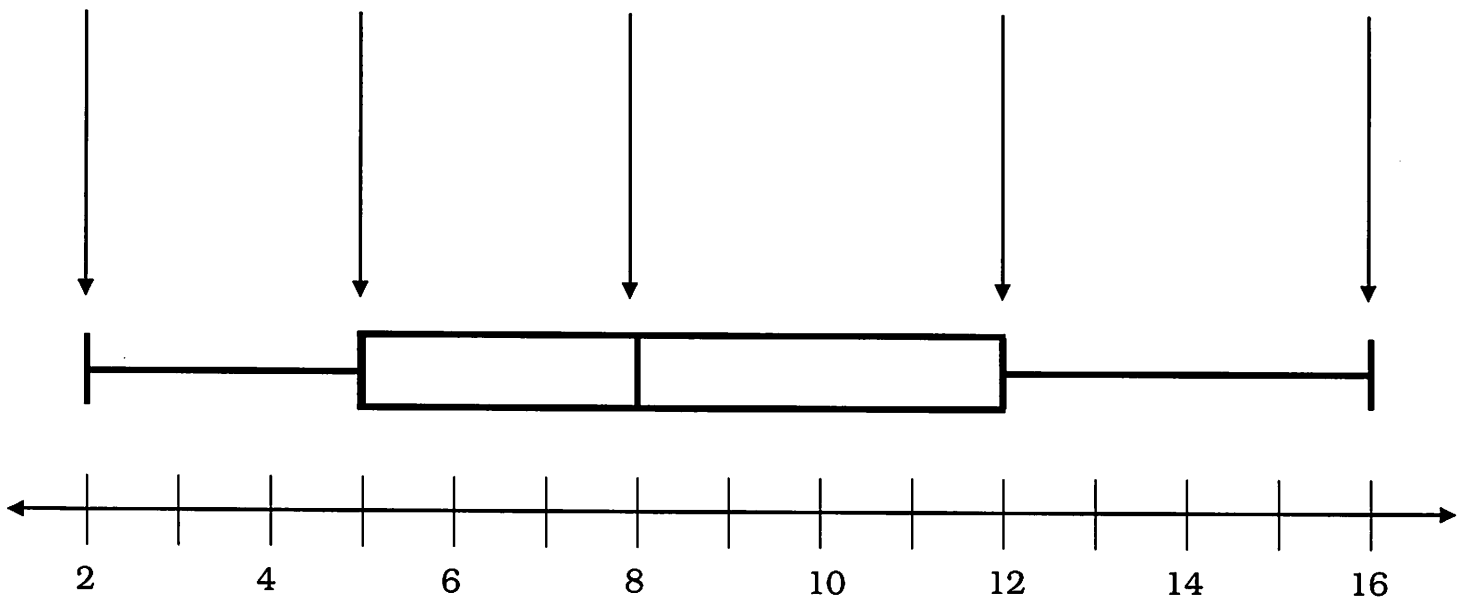


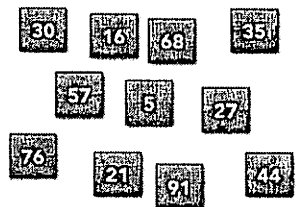
Box-and-Whisker Plots

A box-and-whisker plot is a graph that summarizes a data set along a number line. The **Five Number Summary** will help us construct the box-and-whisker plot.



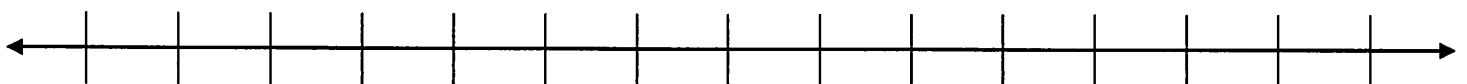
Example

Order the data set. Then label the five boundary values.



Plot the Data on a Box and Whisker Plot!

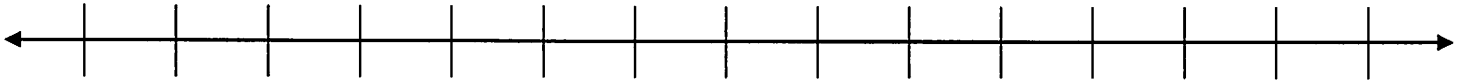
A: 1, 3, 5, 7, 7, 9, 10, 12, 17



Examples:

1. Terri waitressed 10 days out of the last two weeks. The amount of money she earned each day in tips are listed below. Create a box-whisker-plot.

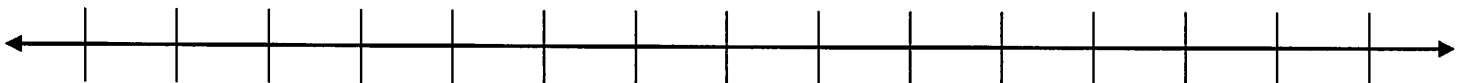
\$32, \$58, \$17, \$27, \$69, \$73, \$42, \$38, \$24, \$52



Got It?

An athletic trainer recorded how many miles 11 people could run in 30 minutes. Make a box plot of the results.

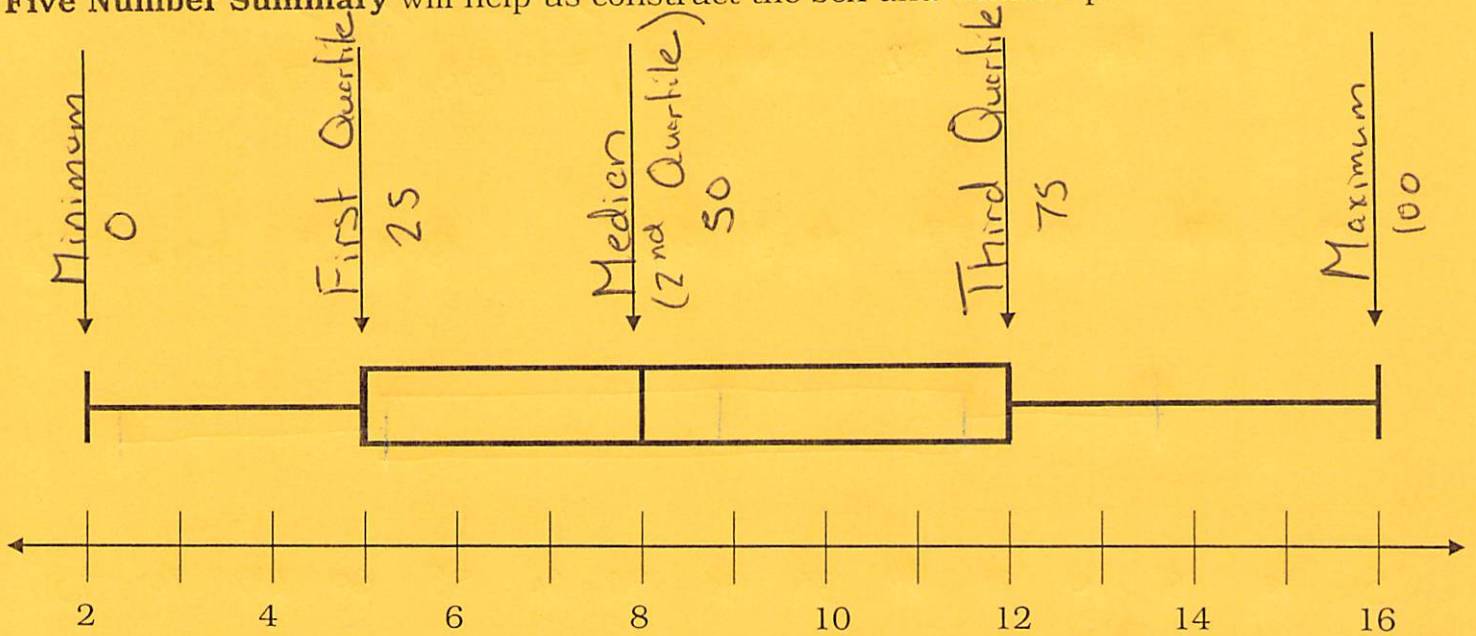
2.5, 4.4, 2.1, 2.3, 4.5, 1.3, 2.2, 5.0, 4.7, 2.7, 3.3



The Inter-Quartile Range (IQR) is _____

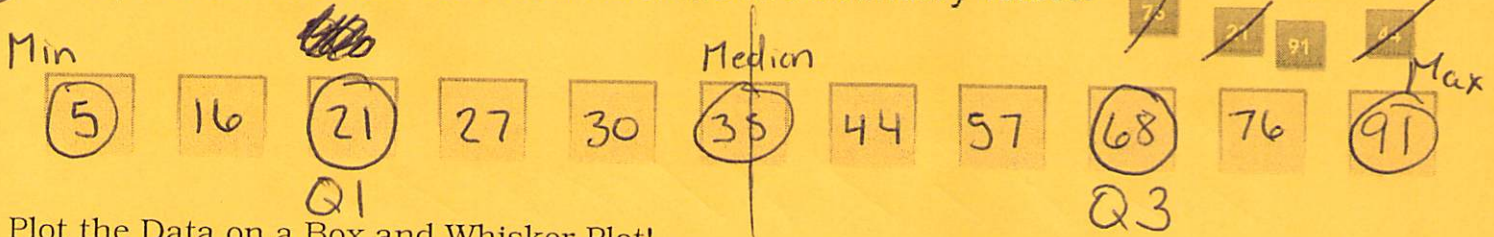
Box-and-Whisker Plots

A box-and-whisker plot is a graph that summarizes a data set along a number line. The **Five Number Summary** will help us construct the box-and-whisker plot.



Example

Order the data set. Then label the five boundary values.



Plot the Data on a Box and Whisker Plot!

A: 1, 3, 5, 7, 7, 9, 10, 12, 17

Q1

Q3

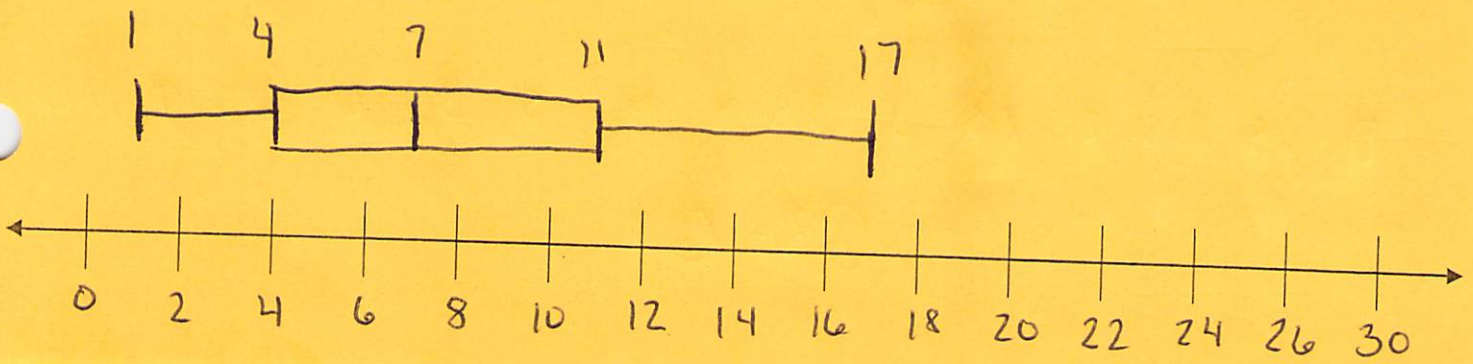
Min: 1

Q3: 11

Q1: 4

Max: 17

Median: 7



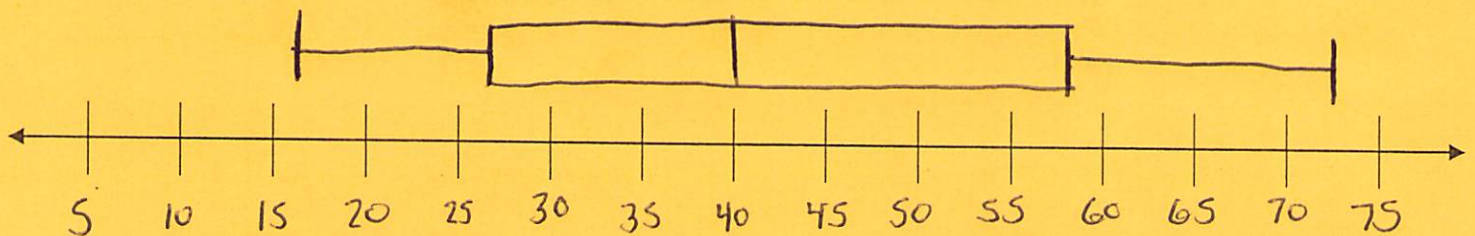
Examples:

1. Terri waitressed 10 days out of the last two weeks. The amount of money she earned each day in tips are listed below. Create a box-whisker-plot.

~~\$32, \$58, \$17, \$27, \$69, \$73, \$42, \$38, \$24, \$52~~

17, 24, (27), 32, 38 | 42, 52, (58), 69, 73

Min: 17 Q1: 27 Med: 40 Q3: 58 Max: 73



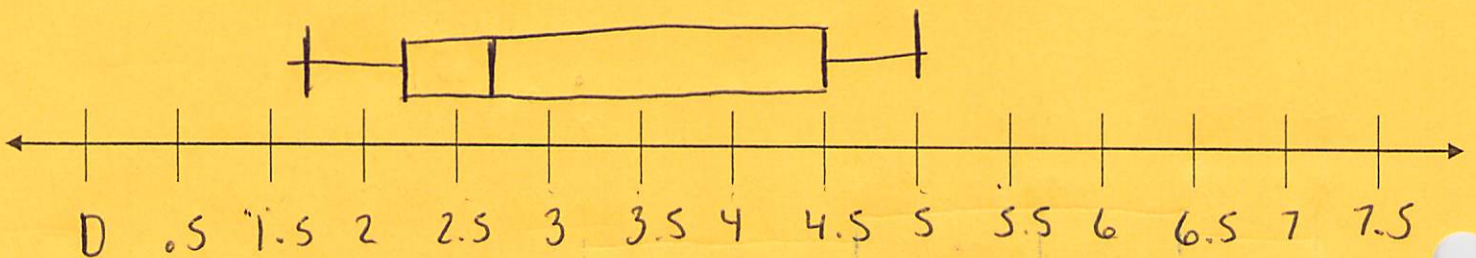
Got It?

An athletic trainer recorded how many miles 11 people could run in 30 minutes. Make a box plot of the results.

~~2.5, 4.4, 2.1, 2.3, 4.5, 1.3, 2.2, 5.0, 4.7, 2.7, 3.3~~

1.3, 2.1, (2.2), 2.3, 2.5, 2.7, 3.3, 4.4, 4.5, 4.7, 5.0

Min 1.3 Q1: 2.2 Median = 2.7 Q3: 4.5 Max 5.0



The Inter-Quartile Range (IQR) is Q3 - Q1