


1 - 8

Box-and-Whisker Plots



box-and-whisker plot: data is evenly distributed in 4 equal parts

quartiles: numbers that separate the data into 4 parts

Hank Aaron's Career Home Runs (23 yrs)

10, 12, 13, 20, 24, 26, 27, 29, 30, 32, 34, 34, 38, 39, 39, 40, 40, 44, 44, 44, 44, 45, 47

Handwritten annotations: LQ above 26, M above 34, UQ above 44. The numbers 10, 26, 34, 44, and 47 are circled.

Always... make sure the #'s are in order

Then find 5 very important numbers...

1.) median

2.) upper quartiles

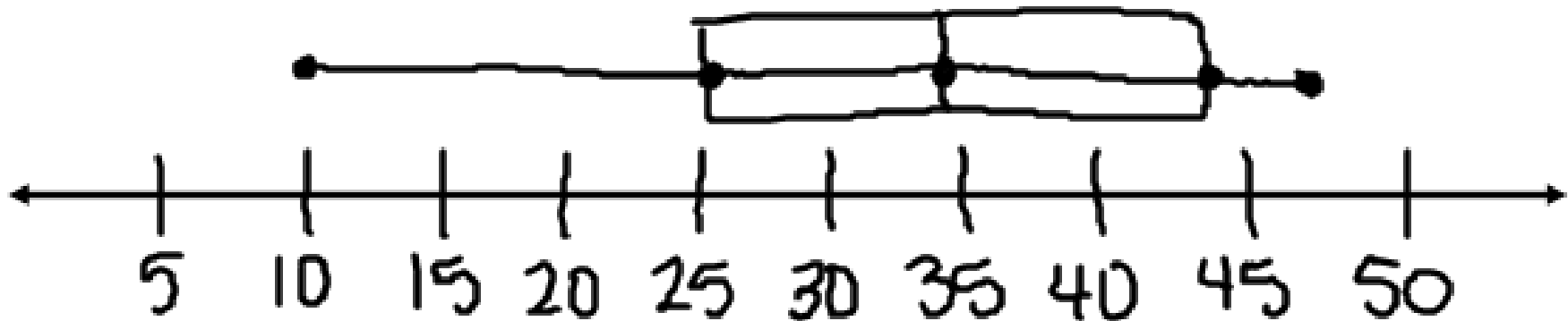
3.) lower quartiles

4.) least

5.) greatest

> medians of each half

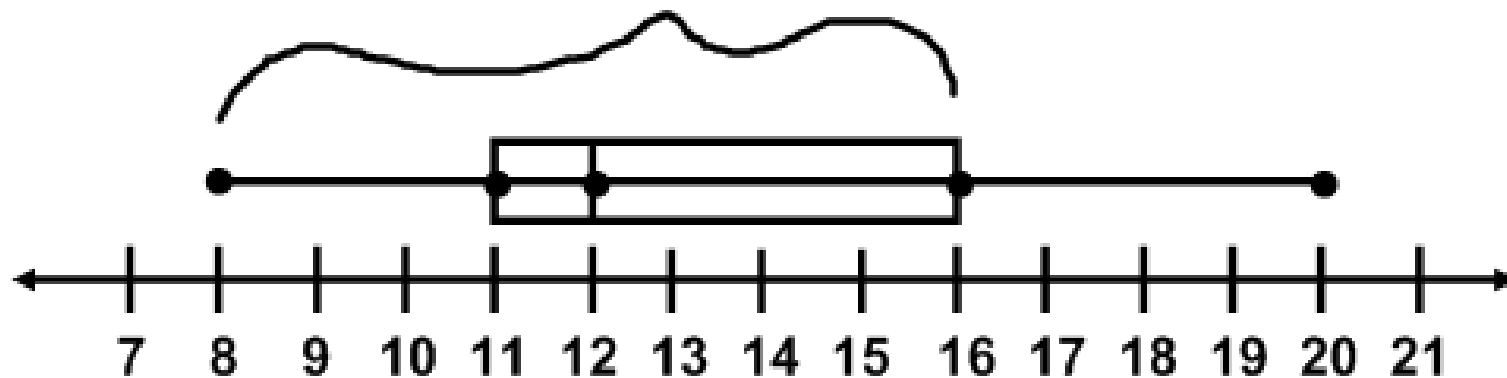
Create a number line including those 5 points



Special Notes

*** 25% of the data is in each box/whisker

Interpreting Box-and-Whisker Plots



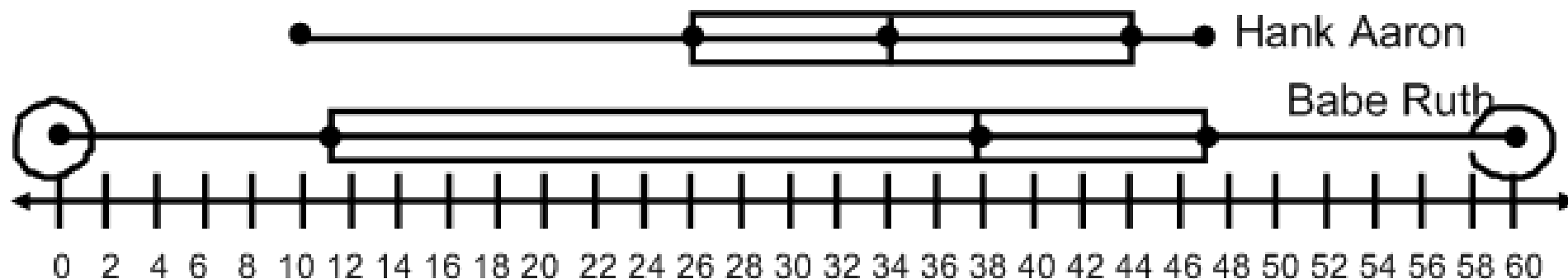
1.) What is the range of the data?

$$20 - 8 = 12$$

2.) What percentage of the data is between 8 and 16?

$$75\%$$

3.) What is the greatest value? 20



1.) Who hit the most home runs in a single season? **BR**


2.) The least? **BR**

3.) Whose middle 50% is most consistent? **HA**

4.) From this graph, can you tell how many years either of them played? **No**

5.) What was Hank Aaron's median? **34**

6.) Babe Ruth's? **38**



Overall, what can we say about these two?

Hank Aaron was more consistent,
but Babe Ruth was more successful.



Homework:

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