STAT 528

BABE RUTH'S HOME RUNS

Here are the numbers of home runs that Babe Ruth hit in each of 15 years from 1920 to 1934 with the New York Yankees:

54  59  35  41  46  25  47  60  54  46  49  46  41  34  22

1. What is the mean number of home runs?

2. What is the median number of home runs that Babe Ruth hit each year?

   Below are the numbers of home runs arranged in increasing order:

   22  25  34  35  41  41  46  46  46  47  49  54  54  59  60

3. Find the range of the numbers of home runs.

4. Find the first quartile and the third quartile.

5. What is the interquartile range (IQR)?
For a boxplot, Graph ➔ Boxplot ➔ One Y Simple ➔ Select a variable ➔ OK

6. Is his famous 60 home runs in 1927 an outlier?

7. What is the deviation of $x_i = 54$ from the sample mean $\bar{x}$?

8. Compute the variance $s^2$ of the number of home runs.

9. Find the standard deviation $s$.

You can get a numerical summary of the data using the following Minitab menu:
Stat ➔ Basic Statistics ➔ Display Descriptive Statistics ➔ Select a variable ➔ OK

**Descriptive Statistics: HomeRuns**

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>N*</th>
<th>Mean</th>
<th>SE Mean</th>
<th>StDev</th>
<th>Minimum</th>
<th>Q1</th>
<th>Median</th>
<th>Q3</th>
<th>Maximum</th>
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</thead>
<tbody>
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