

**Subject 28**  
**Statistics**

**Please do not write on the exam paper.**

A manufacturer of MP3 players has to choose between two battery suppliers. His choice will be motivated by the total time the MP3 player can work with one charge. So he tests forty batteries of each brand (with the same list of songs or music).

Here are the results rounded to the nearest hour:

Battery A: 26, 24, 28, 28, 32, 25, 31, 28, 22, 23, 30, 25, 29, 26, 30, 23, 27, 22, 28, 27  
32, 29, 33, 29, 29, 21, 33, 28, 24, 26, 28, 26, 26, 22, 30, 19, 28, 21, 30, 27

Battery B: 23, 21, 30, 30, 32, 20, 33, 33, 22, 23, 33, 20, 30, 23, 30, 23, 32, 22, 33, 27  
32, 30, 33, 29, 30, 21, 33, 32, 24, 25, 31, 30, 23, 22, 30, 19, 30, 32, 30, 29

For the following questions you may round the results as needed.

1. For each set of data, compute the mean, the median and the mode.  
What can you deduce from the results?
2. For each set of data, compute the standard deviation, the interquartile range and the range.  
What can you deduce from the results?
3. Draw a boxplot for each set of data.
4. What would you advise the MP3 manufacturer to do?