

**Subject n°24**

**STATISTICS**

***Please do not write on the exam paper, and do not forget to give back the examination paper at the end of the test.***

The following table gives the portion (in %) devoted to organic farming out of the total agricultural area in some EU countries in 2003 and 2012 :

	<b>2003</b>	<b>2012</b>
Belgium	1.7	1.4
France	1.9	<i>a</i>
Germany	4.3	5.8
Ireland	0.7	1.1
Italy	7	8.9
Luxembourg	2.3	2.7
Netherlands	2.2	2.6
Portugal	3.2	6.1
Spain	2.9	7.5
United Kingdom	3.9	3.4

*Source: European Statistical System*

- 1) In 2012, the total agricultural area in France was 23,767,889 hectares out of which 855,644 hectares were devoted to organic farming.  
Use this information to find the value of *a*.
- 2) Calculate the mean of each set of data.
- 3) a) Compute the median, lower and upper quartile, interquartile range for each data set.  
b) On the same axis, draw a box plot for each data.
- 4) a) Comment on the evolution of organic farming in Europe. Can you explain this evolution?  
b) What do you think about the data from the United Kingdom?