

Sujet n°19

Please do not write on the subject paper and don't forget to give back the examination paper at the end of the test

STATISTICS

Introduction :

The potato originates from the Lake Titicaca region of the Andean Mountains, located near modern-day Peru and Bolivia. It was domesticated between 10,000 and 7,000 years ago, providing a stable high-altitude food source for many cultures. Between 1532 and 1572, Incans introduced the potato to Spanish explorers.

Questions :

These are data of three European countries.

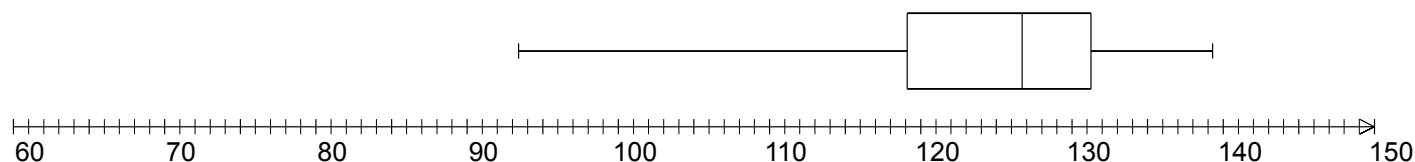
The table gives the average potato consumption for one person in one year expressed in kg.

Year	1961	1966	1971	1976	1981	1986	1991	1996	2001	2006
France	115.2	102.8	96.6	73	73.5	74.6	73.2	71.1	66.9	62.7
UK	97.3	101.8	101	88.6	104.6	108.9	101.6	111.4	121.9	107.4
Ireland	139.3	131.3	119.1	109.2	131.8	131.1	123	130.4	119.1	93.4

1. What do you think of the tendency of the potato consumption in Europe ?
2. Compute the mean for each country for these 45 years. Round values to two decimal places.
3. Copy and fill in the table below to compare the three data. Think that you have to be able to explain how you find the values !

Country	minimum	lower quartile	median	upper quartile	maximum	mean
France						
UK						
Ireland	93.4	119.1	126.7	131.25	139.3	122.77

4. Draw each box plot on the attached document using the same scale : 2 cm for 10 kg
the given box is for Ireland.



5. Conclude by comparing the consumption of these 3 countries.