

BACCALAURÉAT GENERAL
EPREUVE SPECIFIQUE DES SECTIONS EUROPENNES
MATHEMATIQUES – ANGLAIS
CORRIGÉ DU SUJET 17

Éléments à prendre en compte pour évaluer la capacité d'analyse et d'argumentation :

- Ecological disaster in tropical Africa.
- Ongoing exploitation of Africa by rich countries.
- Responsibilities of each citizen in this situation.
- Paradox is due to the fact that the main producers of cocoa are not the main consumers.

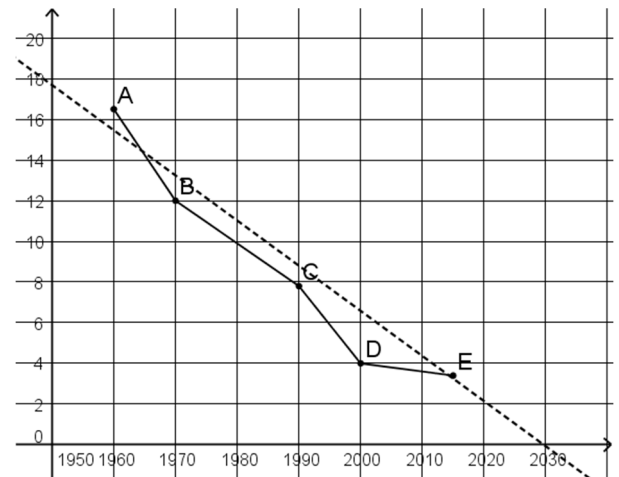
Corrigé de l'exercice :

1. Several methods to forecast this fact. We can look at a graph:

We can notice that the pattern looks linear. We can approach the scatter plot by a line. Then, we read the abscissa of the intersection point between this line and the X-axis.

We can obtain the line with a linear regression (for example the least squares approach). In that case we get: $y = -0,25x + 500$.

We can also decide to chose two points on the scatter plot.



2. a. Adding the different data, we get a consumption of 3,991 tons and a production of 4,638 tons in 2017.

b. The rate is $\frac{4638-3991}{4638} \times 100 \approx 14\%$

c. We can use the following table:



3. We need 23 splits. And in the general case, we need $p \times q - 1$ cuts.