

**BACCALAURÉAT GENERAL
EPREUVE SPECIFIQUE DES SECTIONS EUROPENNES
MATHÉMATIQUES – ANGLAIS**

SUJET 2

**Water for Life
Thème : Proportionnalité**

Sujet comportant deux pages. L'usage de tout modèle de calculatrice, avec ou sans mode examen est autorisé.

Almost two in three Europeans consider that the quality and quantity of water in their country is a serious problem, with industrial and agricultural activities seen as producing the greatest environmental impact.

5 Making sure that there is enough water and it is of suitable quality is one of the biggest challenges facing society in the coming years.

10 In the years to come, climate change will likely have impacts on the frequency and severity of floods, droughts and other disturbing effects on the water cycle. The most recent reports by the Intergovernmental Panel on Climate change (IPCC) conclude that “water and its availability and quality will be the main pressures on societies and the environment under climate change.” Taking account of climate change impacts is a major challenge for water management in the EU, especially as the effects are likely to be different in northern and southern Europe.

15 In his opening speech at the LIFE Environment conference in October 2009, Gustaaf Borchardt, Director of the Water, Chemicals and Biotechnology Unit in DG Environment, stated that: “Protecting the quality of Europe’s water resources has been a high priority for the European Union (EU) since it started adopting legislation in the area of environmental protection.”

Source : <http://ec.europa.eu/environment/life/publications/lifepublications/lifefocus/documents/waterlife.pdf>

Le sujet doit être restitué à la fin de l'épreuve.

1. Explain what the text deals with and comment on it

Exercise

Some facts about water: (according to a WaterAid Report 2012 update)

- 2.5 billion people in the world do not have access to adequate sanitation, almost two fifths of the world's population
- Women in Africa and Asia often carry water on their heads weighing 20 kg, the same as the average airport luggage allowance.
- Billions of people live more than a kilometre from their water source and use just five litres of water a day. The average person in the USA uses over 570 litres of water a day.
- Water in Accra, Ghana, costs three times as much as in New York City.

1 pounds (1lb) = 0.45359 kg

1 mile = 1,609 km

Answer the following questions:

1. Approximately what is the world's population?
2. Assuming a family who lives a kilometre from their water source has to refresh their water supply at least once a day, how many miles would they have to walk in a week?
3. If the average African or Asian woman weighs 120 pounds, use ratios to compare the weight of the water they often carry to their total weight.
4. If the average water bill in New York is \$30 a month, what would be the cost in Ghana?