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# Quarterly Problem

- Green Edition -

## Summer holidays in Cyclades, Greece and water consumption



We've all heard the phrase: "The next wars will be over water". Water scarcity is recognized as one of the most important global risks that humanity will face in the coming years (see [www.un.org/en/climatechange/science/climate-issues/water](http://www.un.org/en/climatechange/science/climate-issues/water)).

In the island complex of Cyclades in Greece fresh water is a scarce resource, especially during the summer tourist season. Most of the fresh water consumed in Cyclades is transported to the islands by water-borne vessels. Visitors to these islands, during the summer season, take at least one shower per day in the open-air showers to rinse off the sea water.

**Use official statistics in order to estimate the amount of fresh water consumed at the peak of the summer season, i.e., July, August, on the open-air showers for the case of the two most popular islands of Cyclades (Mykonos and Santorini).**

TIPS:

Data on air arrivals on the two most popular islands of the Cyclades can be found at the following link: <https://insete.gr/statistical-bulletin/?lang=en> (press the button 'statistical data')

Estimate the average length of visitors' stay in Cyclades based on data from the European Union on the average length of holidays of Europeans.

[data.europa.eu/en/publications/datastories/which-country-eu-has-most-annual-holidays](http://data.europa.eu/en/publications/datastories/which-country-eu-has-most-annual-holidays).

The average flow rate of a shower on the beaches of the Cyclades is 8 l/min.

### Brainstorm-Box

Are there any other ways of supplying Cyclades with fresh water?

Could these ways address the waste of water in outdoor beach showers?



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## Whose method is the most accurate?

Focus on phrasing your approach in a clear and comprehensible way. Also state what foundation you have used for your estimations. Compare your method with your classmates' ones.