



ERASMUS+ MARE
MATH ROAD AROUND EUROPE



Canarian lateen sailing is a traditional canarian olympic sport with a strong tradition specially in the islands of Gran Canaria and Lanzarote. The small boats used in the races called “botes”, consist on a three tips sail (it’s called lateen because of this triangular shape). The relevant disproportion between the sail size and the boat hull explains the skillfull and singular technique of this deep-root sport. This dimensions mean that the boat cannot be kept afloat without the skilled actions of the crew members, who have to move the ballast around in order to manouvre the boat.



1. The sail has an isosceles triangle shape of these dimensions:
 - a. Equal sides: 13.25 m
 - b. Uneven side: 6.20 m

If we need to buy the sail cloth , and we know that a 0.75 m wide cloth is 85 euros per metre...
How much would it coast?

- a. 5623’75 euros
- b. 4900’63 euros
- c. 4505 euros (this is the right answer)
- d. 3182 euros

- 2. Suppose that the wind blows regularly and that the boat sails at a cruising speed of 5'6 knots**

How long has it sailed during the race if it has taken two hours and a half? Give the result in km/h (Remember that 1 knot=1 nautical mile=1'852 km/h)

- a. 30'27 km**
- b. 25'93 km (This is the right answer)**
- c. 52 km**
- d. 47'9 km**