



Problem of the Week

Problem B

These Lakes Are Better Than Good

The table below shows data related to the five Great Lakes, which span the border between Canada and United States.

Lake	Area (miles ²)	Area (km ²)	Volume (miles ³)	Volume (km ³)
Superior	31 700	82 100	2900	12 070
Michigan	22 410	58 030	1180	4930
Huron	23 010	59 590	840	3520
Erie	9910	25 667	117	488
Ontario	7320	18 970	391	1631



- (a) Find values for each of the following. Round your answers to two decimal places.
- How many times bigger is Lake Superior's area than Lake Ontario's?
 - How many times bigger is Lake Superior's volume than Lake Erie's?
 - What percentage of the total volume of all five lakes does Lake Superior contain?
- (b) For the comparisons in part (a), does it matter whether you use the data based in miles, or in kilometres?
- (c) What are the mean and the median areas of the Great Lakes in square kilometres?
- (d) DISCOVERY: Lake Superior is the second largest lake in the world, by area, and Lake Huron is the fourth largest. Do some research to find the first and third largest lakes (by area). Try to discover some past data to see how their sizes have changed over time.