



Problem of the Week

Problem B

Can You Canoe?

Chris and Wes decided to go fishing at their favourite fishing hole but needed to go around several islands. From west to east they are; Little Island, Kettle Island and Big Island.

Starting at the dock on the west side of Lake Numero, they paddled east 600 m (past Little Island), then turned south and went 400 m between Little Island and Kettle Island (to go below Kettle Island).

Next, they turned east again and paddled 800 m (past Kettle Island), and then north 400 m between Kettle Island and Big Island.

Finally, they turned west and went 100 m to get to their fishing hole north of Kettle Island.

- Using grid paper, an appropriate legend, and a suitable scale, plot a possible route that Chris and Wes used, with approximate locations of the three islands.
- Using the shortest route possible, how far is their fishing hole from where they started?
- Assuming Kettle Island is a rectangle, what is the greatest possible area of Kettle Island?

