



Problem of the Week

Problem B

Laps and Lengths

A swimming pool is 25 m long and 12 m wide. A single 4 m wide lane is roped off.

Ismaeel swims in the 4 m wide lane. Swimming two lengths of the pool counts as one lap for Ismaeel.

Kosha swims on the other side of the roped off lane, in the larger rectangular portion of the pool. A lap for Kosha consists of swimming once around a circuit that is $\frac{1}{2}$ m away from each edge and $\frac{1}{2}$ m away from the rope divider.

- How much longer is Kosha's lap than Ismaeel's lap?
- Ismaeel and Kosha each complete ten laps. Determine how much farther than Ismaeel that Kosha swam.

