



## Problem of the Week

### Problem A

#### Ups and Downs

Graham rides his bike to school. He takes a different route home. On the way to school he rides up a hill for 500 metres, then he rides on a flat section for 3 kilometres, and then he rides downhill for 1 kilometre. On his way home he rides on a flat section for 250 metres, then he rides uphill for 750 metres, followed by another flat section for 2 kilometres, then downhill for 2 kilometres, and finally on a flat section for 500 metres.

- A) How far does Graham ride to and from school every day?
- B) What fraction of the total distance travelled in one day is Graham riding downhill?

