5 Ziad is training to become a long-distance swimmer.

He trains every day by swimming lengths at his local pool.

The length of the pool is 25 metres.

Each day he increases the number of lengths that he swims by four.

On his first day of training, Ziad swims 10 lengths of the pool.

5 (a) Write down an expression for the number of lengths Ziad will swim on his nth day of training.

[1 mark]

5 (b) (i) Ziad's target is to be able to swim at least 3000 metres in one day.

Determine the minimum number of days he will need to train to reach his target.

[3 marks]

5 (b) (ii) Ziad's coach claims that when he reaches his target he will have covered a total distance of over 50 000 metres.

Determine if Ziad's coach is correct.

[3 marks]