



Problem of the Week

Problem A

School Garden

Maeve and Azaadi want to make a garden in the school yard, but they do not want the other students to trample the plants. They decide to ask their friends to help find some fencing to protect the vegetables. Maeve found 5 metres of fencing in her shed. Azaadi found two pieces of fencing, one measuring 300 centimetres, the other measuring 6 metres. Their friend Thandi found another piece measuring 8 metres, and Xander donated one more piece of fencing.

The students use the fencing to surround their garden with a perimeter of 28 metres.

- A) What is the length of the fencing donated by Xander?
- B) Can Maeve and Azaadi use the donated fencing to make a rectangular garden with a perimeter of 28 metres, without cutting any of the pieces? Justify your answer.
- C) Suppose that they had made a mistake when measuring the first time, and the actual length of the fence that Thandi donated was 7 metres, but the total perimeter of the donated fencing was still 28 metres. Can they still form a rectangular garden without cutting any of the pieces? Justify your answer.



STRANDS MEASUREMENT, GEOMETRY AND SPATIAL SENSE,
NUMBER SENSE AND NUMERATION

