



Problem of the Week

Problem B

No Business Like Snow Business

The snow is deep and it's perfect snow fort weather. You've decided to build a wall 1.5 m high, 9 m long and 30 cm deep. You find that, by packing snow into your trusty plastic bin, you can make cubic 'snow bricks' which have dimensions 30 cm by 30 cm by 30 cm.

- How many bricks will you need to build the wall?
- Suppose you had a bin in the shape of a rectangular prism that was 60 cm long by 30 cm wide by 15 cm high. How many rectangular prism bricks would you need to build a wall with the same dimensions?
- In the end, you decide to use a 2 : 1 ratio of rectangular bricks to cubic bricks. How many cubic bricks will you need?

