Problem of the Week
Problem B
Jafar's New Floor

Jafar is laying new hardwood flooring in his rectangular living room, which has an area of 66 m². Each box of flooring has 8 identical wooden planks, and each plank has an area of 0.2 m².

(a) Assuming that there is no waste, how many planks will he need to cover the floor of his living room?

(b) If Jafar wants to buy an extra 10% for waste, how many boxes of flooring does he need to buy?

(c) If each box costs $74.50 and sales tax is 15%, what will be the total cost of the flooring in part (b)?

THEME   GEOMETRY & MEASUREMENT