## Marketing tricks

A cosmetic company wants to sell a bottle of perfume that is cylindrical and holds $50 \mathrm{~mL}(50 \mathrm{~cm} 3)$ of scent, but looks like it holds 100 mL . The glass bottle will stand 6 cm high (not including the atomiser) with the side thickness of the glass being 0.50 cm .

Find $x$, the thickness of the top and bottom of the perfume bottle.


