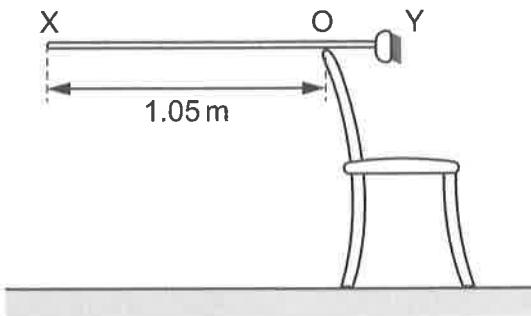


- 5 A student balances a long-handled broom XY horizontally across the top of the back of a chair. The top of the chair O is at a distance of 1.05 m from the end X of the handle.



A 200 g mass is tied to the handle by a thread at a distance of 0.10 m from the end X of the handle. The broom now needs to be moved 0.27 m to the right to balance horizontally.

What is the mass of the broom?

- A 500 g      B 580 g      C 700 g      D 830 g