

- 10** Two wooden cubes of masses 100 g and 25 g are placed at different positions from the centre of a turntable. When the turntable rotates at a constant rate, both cubes remain at the same positions on the turntable. The frictional force acting on each cube is proportional to its weight.

What is the ratio of the distance from the centre of the turntable of the 100 g cube to that of the 25 g cube?

A 0.25

B 1.0

C 2.0

D 4.0