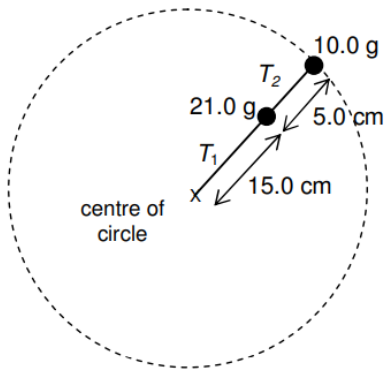10   Two blocks of mass 10.0 g and 21.0 g are tied together and performing a uniform horizontal circular motion on a smooth table, at an angular speed of 6.28 rad s⁻¹, as shown below.

Tension T_1 is the tension in the string connecting the 21.0 g mass to the centre and T_2, the tension in the string connecting the 10.0 g mass to the 21.0 g mass.

What is the ratio T_1 to T_2?

A   1.0   B   1.6   C   2.1   D   2.6