

QUESTION

Two identical spheres of mass m are suspended from a horizontal ceiling by two strings of length l and are held in the position shown in the diagram.



- Which of the following is the correct expression for the tension in the strings?

A $\frac{1}{2}mg$
B mg
C $2mg$
D $4mg$

ANSWER

The correct answer is B. The forces acting on the spheres are shown in the diagram.



The tension in the strings is T . The weight of the spheres is mg . The tension in the strings is T . The weight of the spheres is mg . The tension in the strings is T . The weight of the spheres is mg .

The correct answer is B. The forces acting on the spheres are shown in the diagram.

The tension in the strings is T . The weight of the spheres is mg . The tension in the strings is T . The weight of the spheres is mg . The tension in the strings is T . The weight of the spheres is mg .

The correct answer is B. The forces acting on the spheres are shown in the diagram.