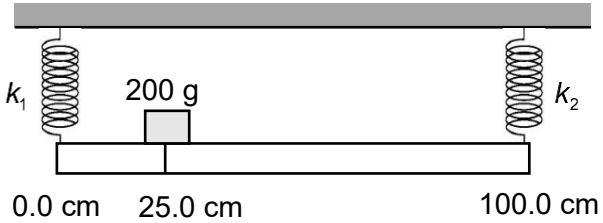
4 A metre rule of mass 50 g is suspended horizontally from the ceiling by two springs at its ends, as shown.



The spring at the 0.0 cm mark has spring constant k_1, while the spring at the 100 cm mark has spring constant k_2.

The springs have the same length when they are unstretched.

A 200 g mass is placed at the 25.0 cm mark.

What is the ratio $\frac{k_2}{k_1}$ such that the ruler is horizontal?

A 0.33 **B** 0.43 **C** 2.3 **D** 3.0