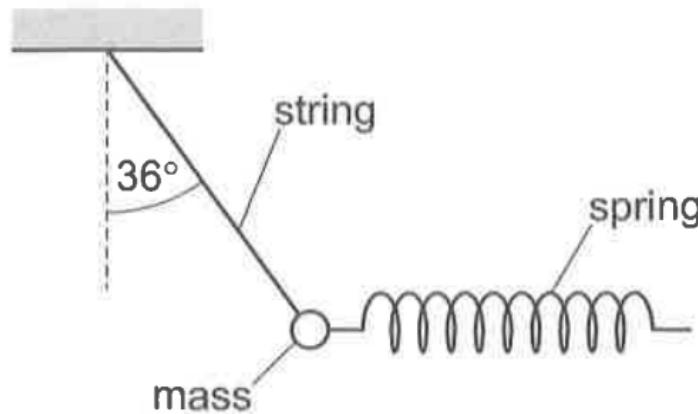


- 5 A mass is tied to the end of a string. The mass is pulled horizontally to one side by a spring of spring constant  $25 \text{ N m}^{-1}$ .

The mass is in equilibrium and the extension of the spring is 0.060 m. The string is at an angle of  $36^\circ$  to the vertical, as shown.



What is the weight of the mass?

A  $1.1 \text{ N}$

B  $1.5 \text{ N}$

C  $1.9 \text{ N}$

D  $2.1 \text{ N}$

- 6 The gravitational field strength at the Earth's surface is  $9.81 \text{ N kg}^{-1}$ . Assume that the Earth is a