

- 8 A small mass is tied to a light inextensible string. The mass is hung onto a fixed spring balance. The spring balance reads 50 g. (Fig. 8.1)

The mass is then displaced from the vertical at an angle  $30^\circ$  and released from rest. (Fig. 8.2)



Fig. 8.1

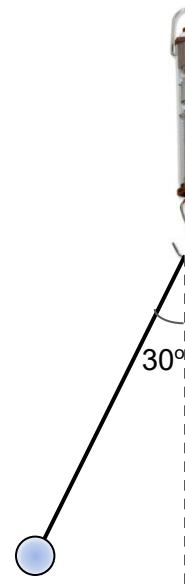


Fig. 8.2

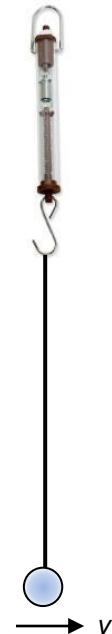


Fig. 8.3

The reading on the balance when the mass is at the lowest point of its motion (Fig. 8.3) is

A  $= 50 \text{ g}$

B  $< 50 \text{ g}$

C  $> 50 \text{ g}$

D  $= 0 \text{ g}$