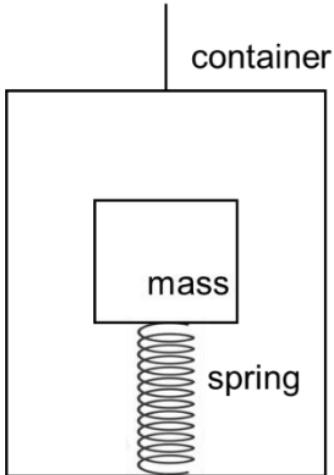


- 4 A light spring of natural length 10.0 cm is attached to the floor of a container. A mass is placed on top of the spring.



When the container is lifted upwards at a constant speed, the length of the spring is 7.5 cm. The container then moves upwards with a constant deceleration of 2.0 m s^{-2} .

What is the new length of the spring?

A 7.0 cm

B 8.0 cm

C 12.0 cm

D 13.0 cm