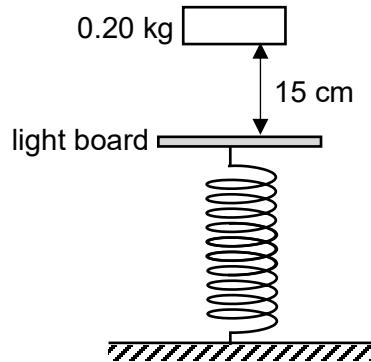


- 9** A block of mass  $0.20\text{ kg}$  is dropped from a height of  $15\text{ cm}$  above a light spring of spring constant  $85\text{ N m}^{-1}$ , as shown below. The block lands on a light board and compresses the spring.



Determine the maximum compression of the spring.

- A** 2.3 cm                      **B** 4.6 cm                      **C** 8.3 cm                      **D** 11 cm