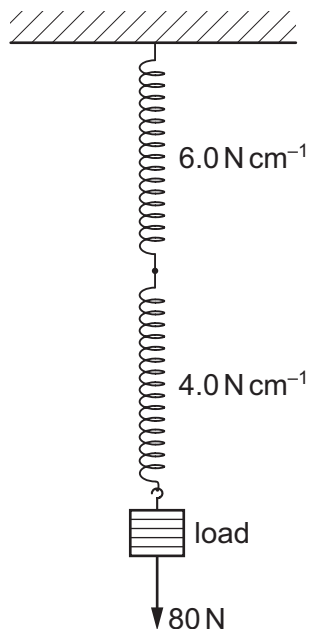


- 20** A spring has a spring constant of  $6.0 \text{ N cm}^{-1}$ . It is joined to another spring whose spring constant is  $4.0 \text{ N cm}^{-1}$ . A load of  $80 \text{ N}$  is suspended from this composite spring.



What is the extension of this composite spring?

- A** 8.0 cm      **B** 16 cm      **C** 17 cm      **D** 33 cm

- 21** The graph below shows the extension of a spring as a function of the force applied to it. The spring is initially