

- 18** A spring has an unstretched length of 4.50 cm. The spring is fixed at one end and a force of 35.0 N is applied to the other end so that the spring extends.

The spring obeys Hooke's law and has a spring constant of 420 N m^{-1} .

What is the strain of the extended spring?

- A** 0.019 **B** 0.083 **C** 1.85 **D** 2.67

- 19** A spring is fixed to a wall and has a force of 10 N applied to the other end. The spring is