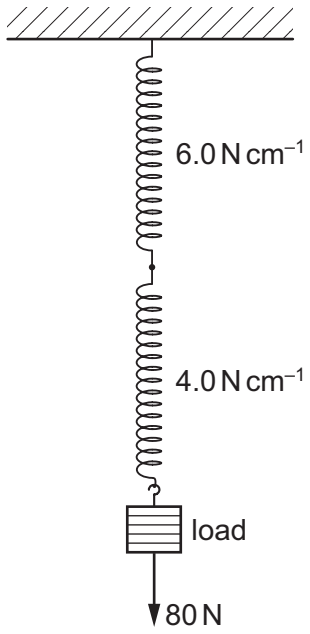
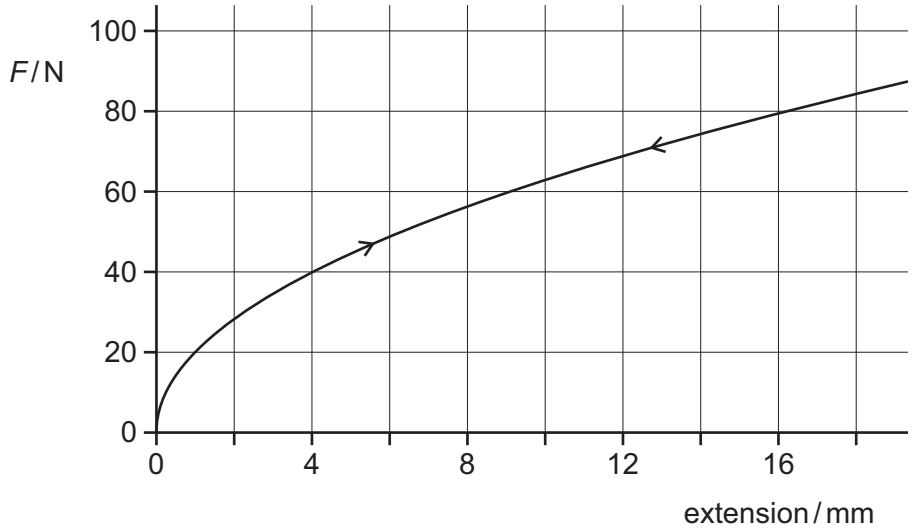
20 A spring has a spring constant of 6.0 N cm $^{-1}$. It is joined to another spring whose spring constant is 4.0 N cm^{-1}. A load of 80 N is suspended from this composite spring.



What is the extension of this composite spring?

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

21 The graph shows the extension of a sample of a type of rubber as different loads *F* are applied and then gradually removed.



What is the best estimate of the strain energy in the rubber when a load of 80 N is applied?

A 0.40 J **B** 0.64 J **C** 0.88 J **D** 1.3 J