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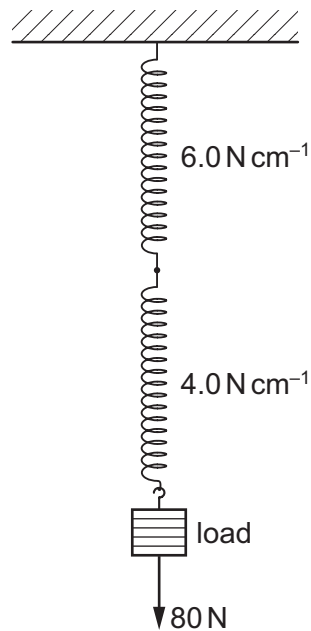
What is the extension of this composite spring?

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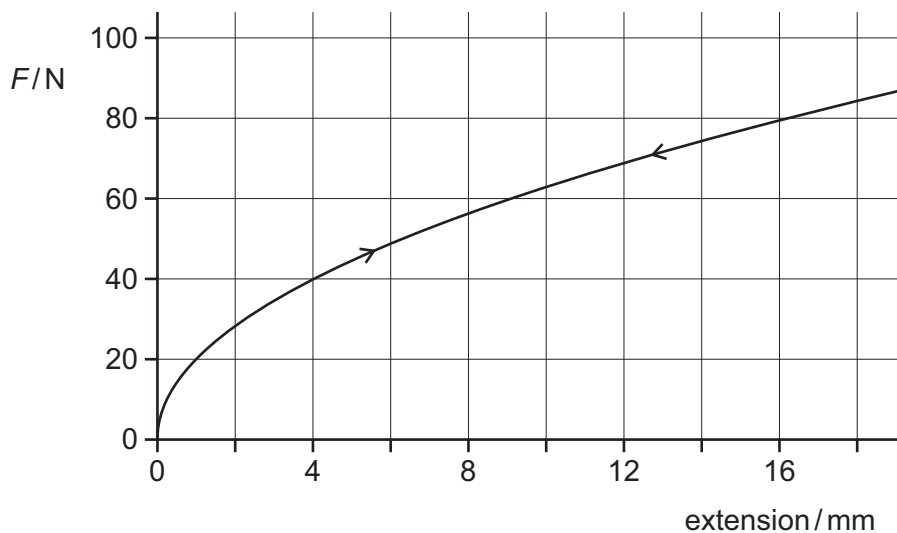
What is the best estimate of the strain energy in the rubber when a load of 80 N is applied?

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