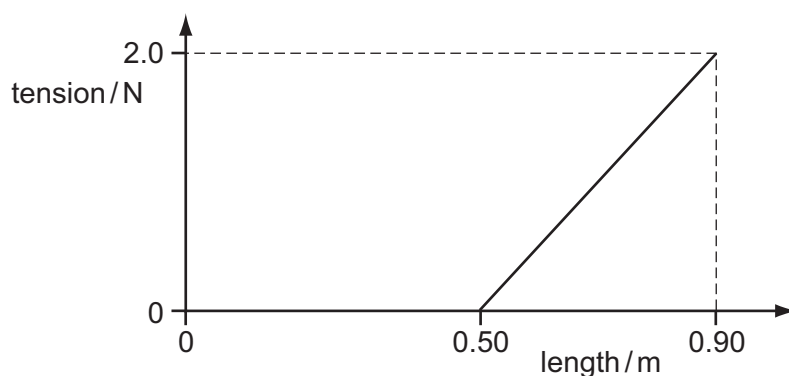
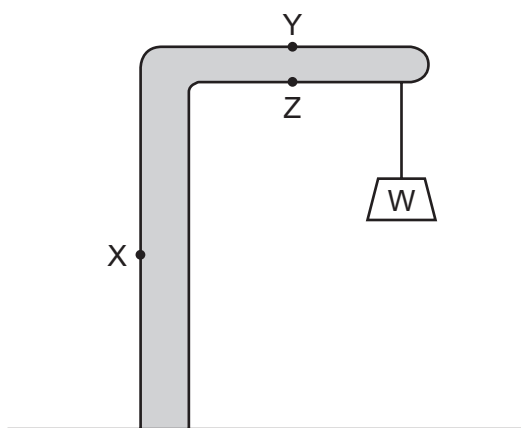


- 19 A spring of unextended length 0.50 m is stretched by a force of 2.0 N to a new length of 0.90 m. The variation of its length with tension is as shown.



How much strain energy is stored in the spring?

- A 0.40 J      B 0.80 J      C 0.90 J      D 1.8 J
- 20 A simple crane consists of a rigid vertical pillar supporting a horizontal beam.



A weight  $W$  is lifted by a rope at the end of the beam.

What are the forces at points  $X$ ,  $Y$  and  $Z$  due to the weight  $W$ ?

	force at $X$	force at $Y$	force at $Z$
<b>A</b>	tension	compression	tension
<b>B</b>	tension	tension	compression
<b>C</b>	compression	tension	compression
<b>D</b>	compression	compression	compression