8 A weight of $2\,N$ is suspended from a spring of spring constant $50\,N\,m^{-1}$.

What is the elastic strain energy stored by the spring in joules?

$\boxtimes$ **A** $\dfrac{1}{2} \times 2 \times 50$

$\boxtimes$ **B** $\dfrac{1}{2} \times 2 \times 50^2$

$\boxtimes$ **C** $\dfrac{1}{2} \times \dfrac{2}{50}$

$\boxtimes$ **D** $\dfrac{1}{2} \times \dfrac{2^2}{50}$

(Total for Question 8 = 1 mark)