25 When describing the behaviour of a spring, the spring constant is used.
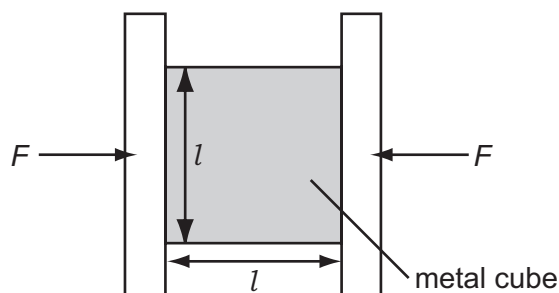
Different loads are used to extend the spring by different amounts.

To find the spring constant, which quantities are required?

    A   the elastic limit and the loads

    B   the elastic limit, extensions and the length of the spring

    C   the loads and the extensions of the spring

    D   the loads and the length of the spring

26 A metal cube of side l is placed in a vice and compressed elastically by two opposing forces F.

How will Δl, the amount of compression, relate to l?

    A $\Delta l \propto \dfrac{1}{l^2}$ **B** $\Delta l \propto \dfrac{1}{l}$ **C** $\Delta l \propto l$ **D** $\Delta l \propto l^2$

Space for working