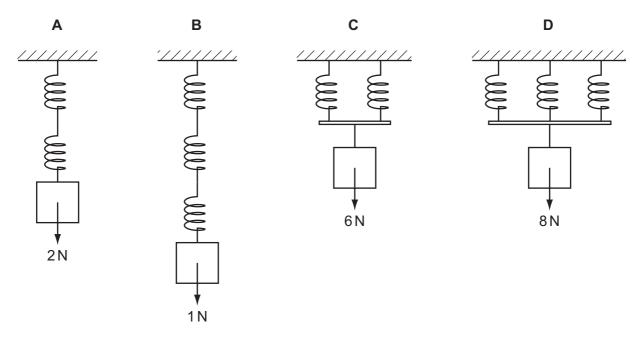
23 A number of identical springs, each having the same spring constant, are joined in four arrangements. A different load is applied to each arrangement.

Which arrangement has the largest extension?



24 A light wave of amplitude *A* is incident normally on a surface of area *S*. The power per unit area reaching the surface is *P*.

The amplitude of the light wave is increased to 2A. The light is then focussed on to a smaller area $\frac{1}{3}S$.

What is the power per unit area on this smaller area?

- **A** 36*P*
- **B** 18*P*
- **C** 12*P*
- **D** 6*P*

Space for working