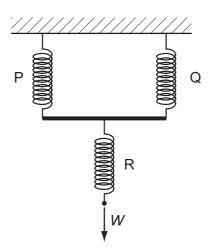
23 Three springs are arranged vertically as shown.



Springs P and Q are identical and have spring constant k. Spring R has spring constant 3k.

What is the increase in the overall length of the arrangement when a force W is applied as shown?

- **B** $\frac{4}{3}\frac{W}{k}$ **C** $\frac{7}{2}kW$ **D** 4kW

Space for working