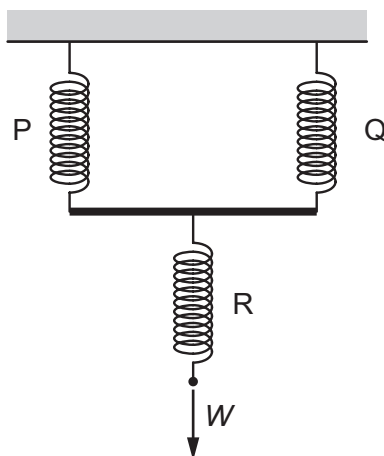21 Three springs are arranged vertically as shown.

Springs P and Q are identical and each has 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?

A $\dfrac{5}{6}\dfrac{W}{k}$ B $\dfrac{4}{3}\dfrac{W}{k}$ C $\dfrac{7}{2}kW$ D $4kW$