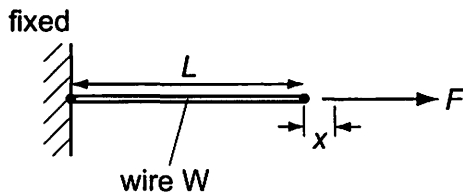
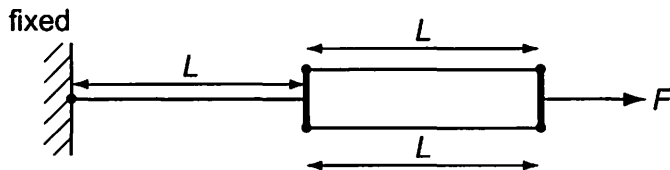


- 13 A wire W, initially of length  $L$ , is fixed at one end and pulled by a force  $F$  at the other end. The wire extends by  $x$ .



Three wires, all identical with wire W, are connected as shown to form a composite wire.



The composite wire is fixed at one end and pulled by the same force  $F$  at its other end.

What is the total extension of the composite wire?

- A  $\frac{4}{3}x$                       B  $\frac{3}{2}x$                       C  $\frac{5}{6}x$                       D  $2x$