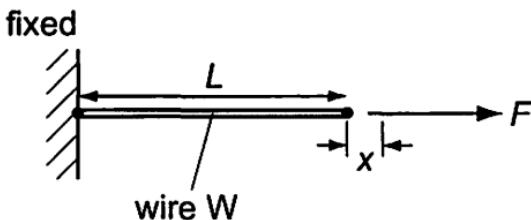
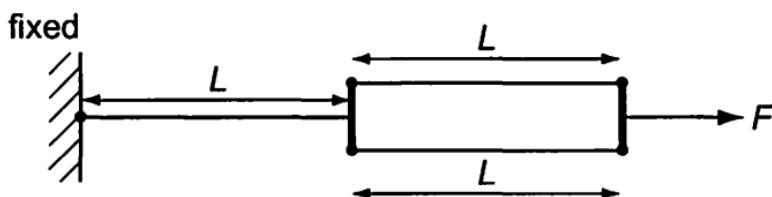


- 13 A wire W, initially of length L , is fixed at one end and pulled by a force F at the other end. The wire extends by x .



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 $2x$