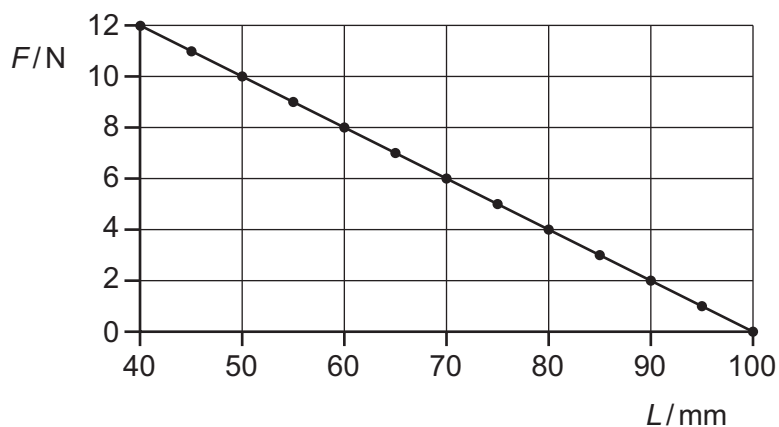


- 18 Atmospheric pressure at sea level has a value of 100 kPa.  
The density of sea water is  $1020 \text{ kg m}^{-3}$ .

At what depth in the sea would the total pressure be 110 kPa?

- A 1.0 m                      B 9.8 m                      C 10 m                      D 11 m

- 19 A spring is compressed by a force. The graph shows the compressing force  $F$  plotted against the length  $L$  of the spring.



What is the spring constant of this spring?

- A  $0.2 \text{ Nm}^{-1}$                       B  $5 \text{ Nm}^{-1}$                       C  $100 \text{ Nm}^{-1}$                       D  $200 \text{ Nm}^{-1}$

Space for working