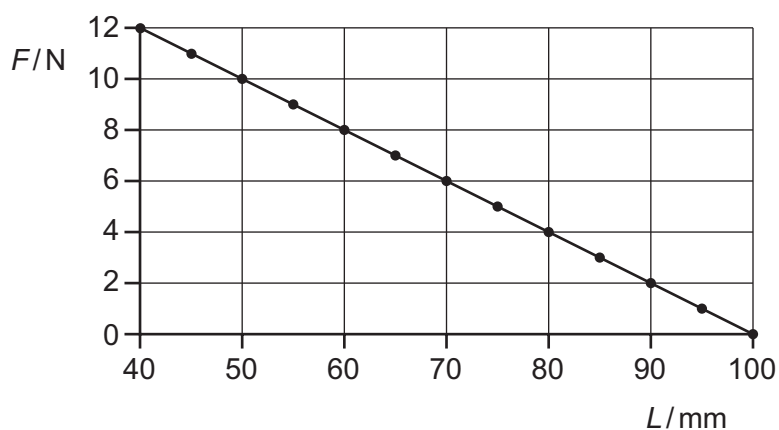


- 21 A spring is compressed by a force. The graph shows the compressing force F plotted against the length L of the spring.



What is the spring constant of this spring?

- A 0.2 N m^{-1} B 5 N m^{-1} C 100 N m^{-1} D 200 N m^{-1}
- 22 Using monochromatic light, interference fringes are produced on a screen placed a distance D from a pair of slits of separation a . The separation of the fringes is x .

Both a and D are now doubled.

What is the new fringe separation?

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

Space for working