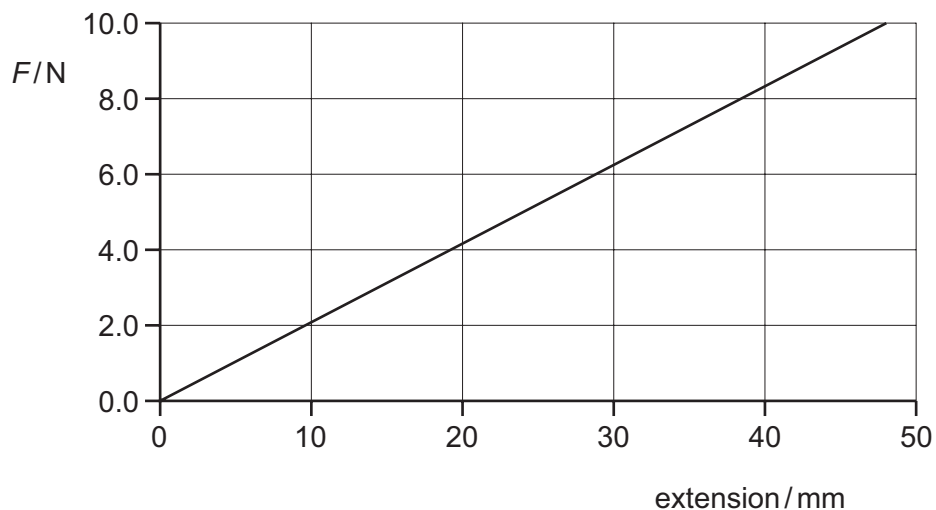


- 19** The graph shows how force depends on extension for a certain spring.



What is the energy stored in the spring when the extension is 30 mm?

- A** 0.095 J **B** 0.19 J **C** 0.25 J **D** 0.95 J
- 20** The Mariana Trench in the Pacific Ocean has a depth of about 10 km.

Assuming that sea water is incompressible and has a density of about 1020 kg m^{-3} , what would be the approximate pressure at that depth?

- A** 10^5 Pa **B** 10^6 Pa **C** 10^7 Pa **D** 10^8 Pa

Space for working