

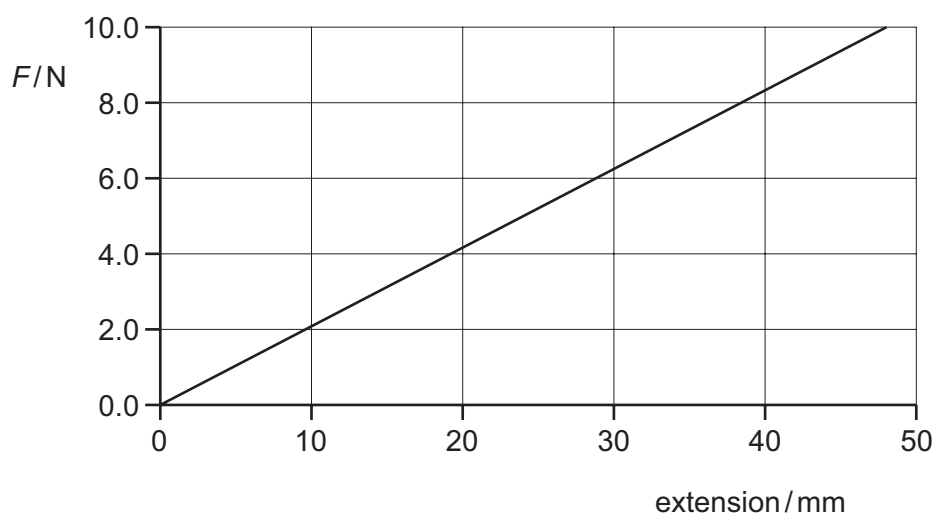
**20** A student writes some statements about solids, liquids and gases.

- 1 Solids are rigid because the molecules in a solid vibrate.
- 2 Liquids flow because the molecules in a liquid are closer than in a gas.
- 3 Gases are less dense than liquids because the molecules in a gas move randomly.

Which statements are correct?

- A** 1 only  
**B** 1 and 3 only  
**C** 2 and 3 only  
**D** none of the above

**21** 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

**Space for working**