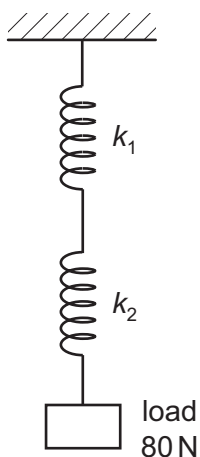


- 25 Two springs, one with spring constant  $k_1 = 4 \text{ kN m}^{-1}$  and the other with spring constant  $k_2 = 2 \text{ kN m}^{-1}$ , are connected as shown.



What is the total extension of the springs when supporting a load of 80 N?

- A** 1.3 cm      **B** 4 cm      **C** 6 cm      **D** 60 cm
- 26 Which statement about waves is correct?
- A** All electromagnetic waves travel at the same speed in a vacuum.
- B** Longitudinal waves can be polarised.
- C** The amplitude of a wave is directly proportional to the energy transferred by the wave.
- D** The frequency of infra-red light is greater than the frequency of ultra-violet light.

**Space for working**