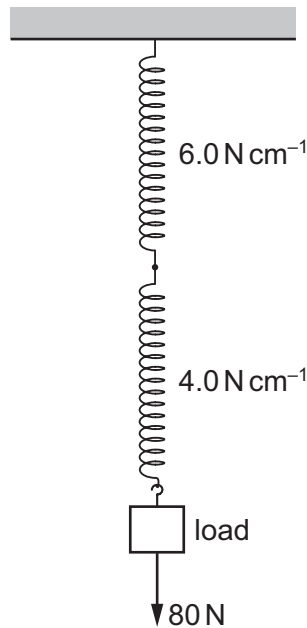


- 23** A spring has a spring constant of 6.0 N cm^{-1} . It is joined to another spring whose spring constant is 4.0 N cm^{-1} . A load of 80 N is suspended from this composite spring.



What is the extension of this composite spring?

- A** 8.0 cm **B** 16 cm **C** 17 cm **D** 33 cm
- 24** The range of frequencies of sound waves emitted by blue whales is 10 Hz to 40 Hz .
The speed of sound in seawater is approximately 1.5 km s^{-1} .
What is the approximate range of wavelengths of the sound waves emitted by blue whales?
- A** 6.7 mm to 27 mm
B 3.8 cm to 15 cm
C 6.7 m to 27 m
D 38 m to 150 m