

**23** A beam of red laser light has length 1.0m.

What is the order of magnitude of the number of wavelengths of the red light in 1.0m?

A  $10^4$

B  $10^6$

C  $10^8$

D  $10^{10}$

**24** When a car travelling with constant velocity passes a stationary observer, the observer hears a