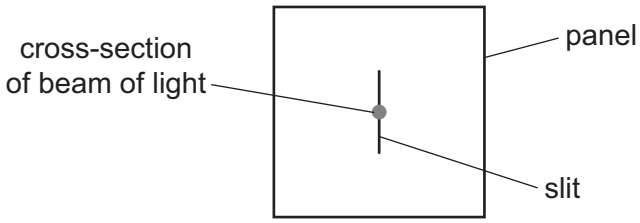
28 An electromagnetic wave travels in a straight line through a vacuum. The wave has a frequency of 6.0 THz.

What is the number of wavelengths in a distance of 1.0 m along the wave?

A 5.0×10^{-5} **B** 2.0×10^{1} **C** 2.0×10^{4} **D** 5.0×10^{7}

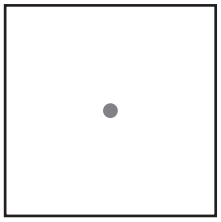
29 A beam of laser light is directed towards a narrow slit.



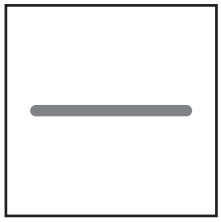
After emerging from the other side of the slit, the light then falls on a screen.

What is the pattern of light seen on the screen?

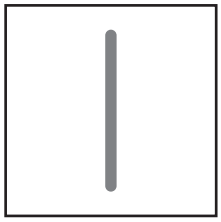
A



B



C



D