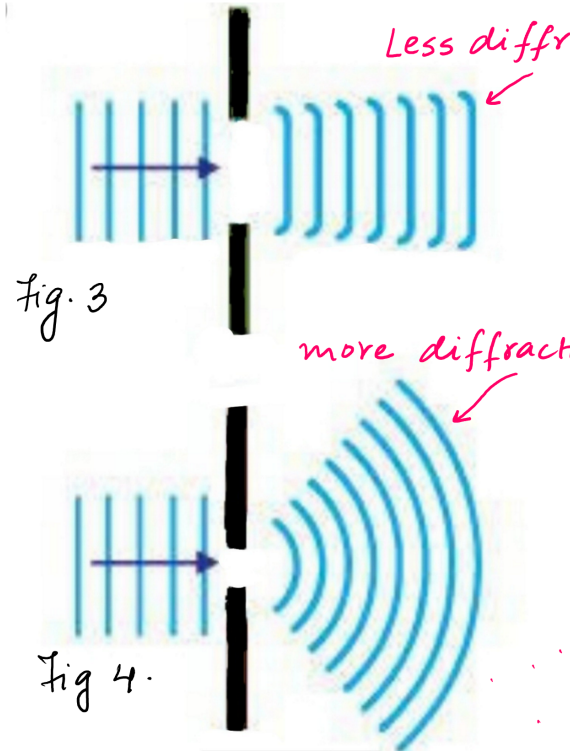
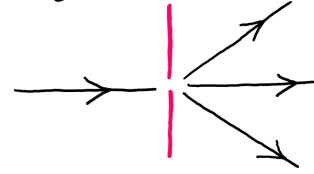


- Diffraction is observed in fig ①
- During diffraction, the wavelength (λ), speed (v) and frequency (f) remains unchanged.
- A simplified diagram if asked in exams can be constructed as shown in fig ②



Less diffraction

more diffraction

In fig 3 & fig 4 we can observe that the amount of diffraction / amount of spreading depends on the

Size of the gap / slit / aperture in comparison with the wavelength

- Size of gap $\approx \lambda$ significant diffraction occurs \rightarrow fig ④
- Size of gap $\gg \lambda$ Less diffraction occurs \rightarrow fig ③