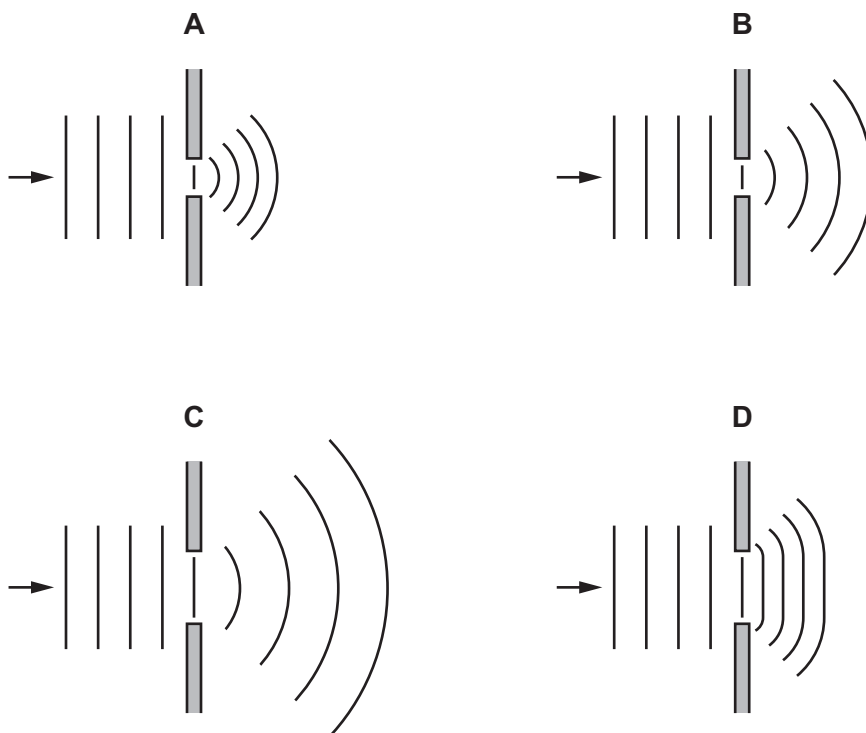


- 29 The diagrams show the diffraction of water waves in a ripple tank as they pass through a gap between two barriers.

Which diagram is correct?



- 30 A beam of light from a laser is incident normally on a double slit. Interference fringes are seen on a screen placed parallel to the double slit.

The separation of the two slits is a . The distance between the slits and the screen is D . The distance between the centres of two adjacent bright fringes is x .

D and a are both halved.

What is the distance between the centres of two adjacent bright fringes after these changes?

- A $\frac{x}{2}$ B x C $2x$ D $4x$