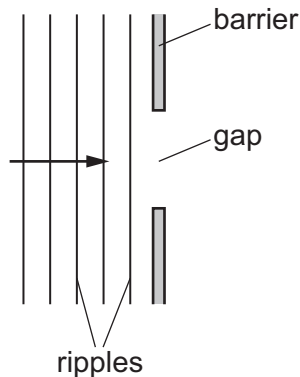


- 27** A ripple tank and a barrier with a single gap are used to demonstrate the diffraction of surface ripples on water. Initially, the wavelength of the ripples is five times smaller than the gap in the barrier.



Which change increases the amount of diffraction observed?

- A** double the amplitude of the ripples
- B** double the width of the gap
- C** halve the frequency of the ripples
- D** halve the wavelength of the ripples