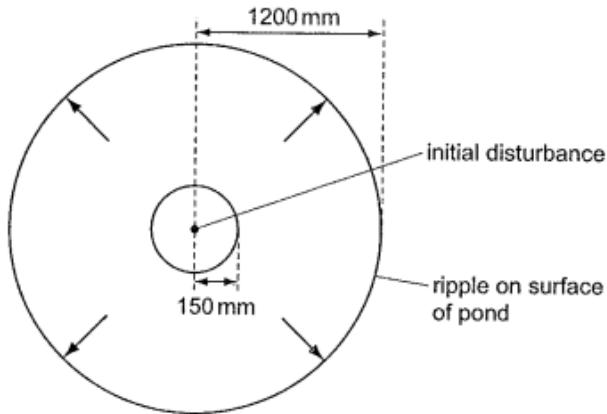


- 16** Ripples on the surface of a pond spread out in circles from the point of an initial disturbance. Assume that the energy of the wave is spread over the entire circumference of the ripple.

For one such ripple, the amplitude of the ripple at a distance of 150 mm from the disturbance is 2.0 mm.



What will be the amplitude of the ripple at a distance of 1200 mm from the disturbance?

(Assume no energy is lost in the propagation of the ripple.)

- A** 0.031 mm **B** 0.13 mm **C** 0.25 mm **D** 0.71 mm