

- 17** A hemispherical bowl of radius 200 mm is completely filled with water at rest. If its side is tapped gently, a circular water wave pulse can be produced on the surface of the water which travels inwards with a speed of 250 mm s^{-1} .

What is the radius of the pulse and its direction of travel one second after the pulse is produced?

- A** zero, stationary
- B** 50 mm, inwards
- C** 50 mm, outwards
- D** 100 mm, outwards