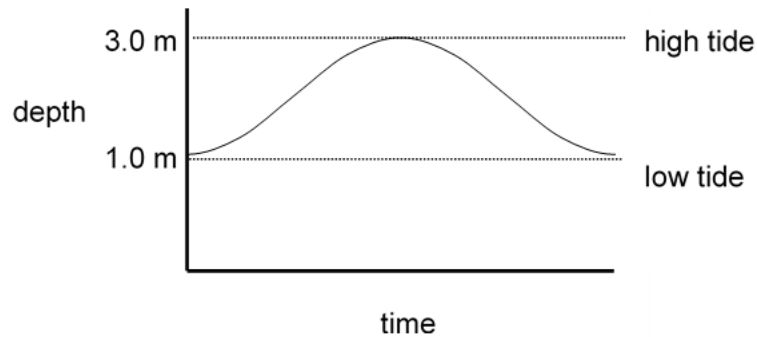


15

The rise and fall of water in a harbour is simple harmonic. The depth varies between 1.0 m at low tide and 3.0 m at high tide. The time between successive low tides is 12 hours



A boat, which requires a minimum depth of water of 1.5 m, approaches the harbour at low tide. How long will the boat have to wait before entering?

|

- A** 0.5 hours
- B** 1.0 hours
- C** 2.0 hours
- D** 2.5 hours

