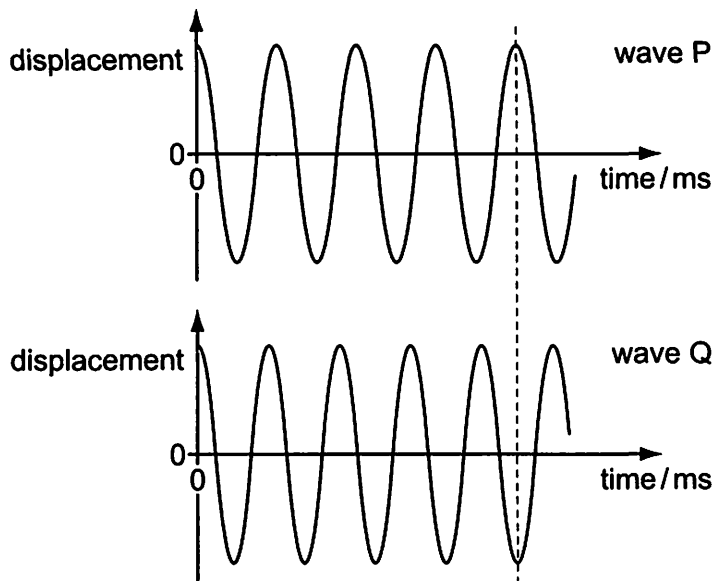


- 18** The diagram shows the displacement-time graphs of two pure sound waves P and Q at a point in space. The graphs have the same scales for the time axes.



The frequency of Q is 125 Hz. The waves are in phase at time $t = 0$.

At what time are the waves next in phase?

- A** 32 ms **B** 36 ms **C** 64 ms **D** 72 ms