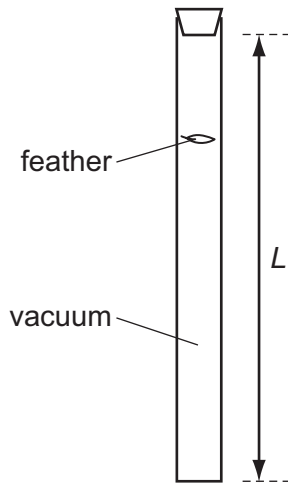8   The diagram shows a laboratory experiment in which a feather falls from rest in a long evacuated vertical tube of length L.

The feather takes time T to fall from the top to the bottom of the tube.

How far will the feather have fallen from the top of the tube in time $0.50\,T$?

A $0.13\,L$ **B** $0.25\,L$ **C** $0.38\,L$ **D** $0.50\,L$