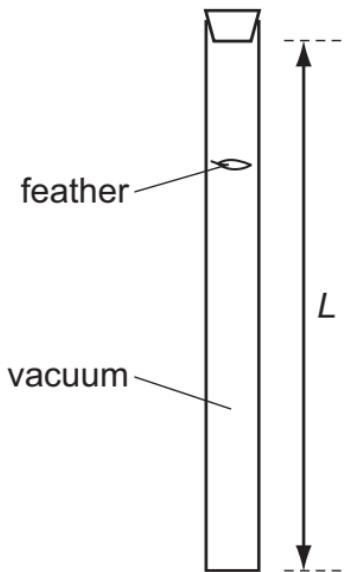


- 8 The diagram shows a laboratory experiment in which a feather falls from rest in a long evacuated vertical tube of length L .



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 $0.13L$

B $0.25L$

C $0.38L$

D $0.50L$

- 9 In the absence of air resistance, a stone is thrown from B and follows a parabolic path in which