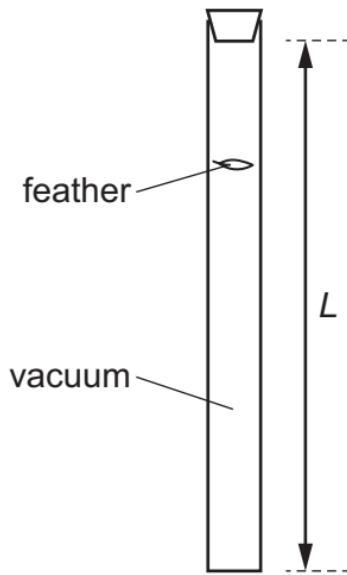


- 5 The diagram shows a laboratory experiment in which a feather falls from rest in a long evacuated vertical tube of length  $L$ .



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

How far does the feather fall from the top of the tube in time  $0.50T$ ?

A  $0.13L$

B  $0.25L$

C  $0.38L$

D  $0.50L$