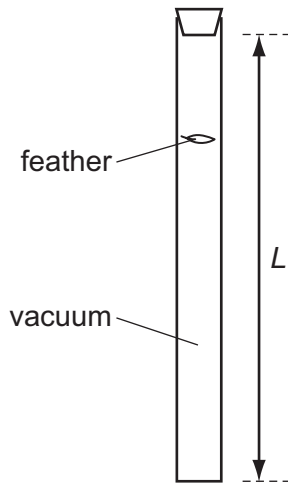


- 8 The diagram shows a laboratory experiment in which a feather falls from rest in a long evacuated vertical tube of length  $L$ .



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**  $0.50 L$

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