

Acceleration ACT



A car accelerates uniformly from rest. If it travels a distance D in time t then how far will it travel in a time $2t$?

A. $D/4$

B. $D/2$

C. D

D. $2D$ Demo...

E. $4D$ ← Correct $x = \frac{1}{2} at^2$

Follow up question: If the car has speed v at time t then what is the speed at time $2t$?

A. $v/4$

B. $v/2$

C. v

D. $2v$ ← Correct $v = at$

E. $4v$