

**Maths4Fun Question :-**

An athlete completes a 3-mile track event where he: -  
Walks the 1st mile  
Runs the 2nd mile and he Runs twice as fast as he walks  
Cycles the 3rd mile and he Cycles one and half times as fast as he runs  
He takes 10 minutes longer than if he had cycled all the way.  
So How fast does he walk?

**Answer**

Let  $x$  = number of minutes to walk one mile  
therefore, the run takes  $x/2$  minutes and the cycling takes  $x/3$  minutes  
Then  $x + x/2 + x/3 = x/3 + x/3 + x/3 + 10$   
i.e.  $x/2 + x/3 = 10$  i.e.  $5x/6 = 10$  therefore  $x=12$   
i.e., he walks one mile in 12 minutes which is = 5 mph