

Name: _____

AP Physics 1: Kinematics
Kinematics Challenge

A runner hopes to complete the 5,000 m in 15.0 min (crazy fast!). After exactly 13.5 min, there are still 550 m to go. The runner must accelerate at 0.10 m/s^2 for how many seconds in order to achieve the desired time?

****Answer: $t = 6.44 \text{ s}$**