

Practice 4

① Alston and Nick go jogging together

at a rate of 2.58 m/s . Alston decides to run ahead on Nick and increases his rate to 3.5 m/s in 9 seconds. What is Alston's acceleration? What is Nick's acceleration?

② It takes Mr. Nunez 13 seconds to have an acceleration of 1.5 m/s^2 . He stopped running at a rate of 4 m/s . How fast was he running prior to accelerating?

③ Mrs. Gradney walked to her classroom from her car (the distance between the two points is 40 m). She forgot her keys, returned to her car, and went back to her classroom.

(A) What was the distance she walked?

(B) What is her displacement when she arrived to get her keys?

(C) What is her displacement midway AFTER she got her keys?