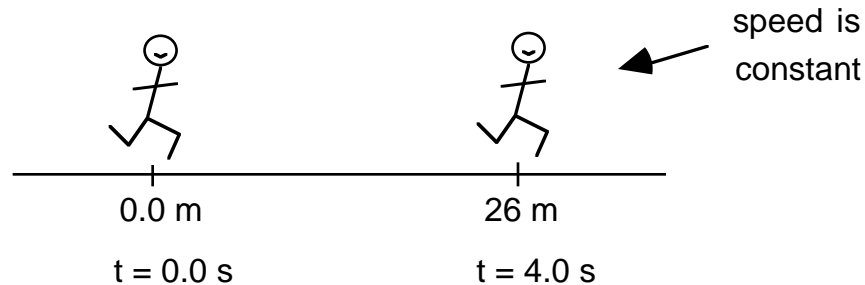


Kinematics 1 : W.S.-22

1) A boy runs to the right.



- The boy's displacement at $t = 0.0$ s is _____ m.
- The boy's displacement at $t = 4.0$ s is _____ m.
- The velocity during this time is _____ m/s.
- If the boy keeps running at this velocity, what will his displacement be at time $t = 8.0$ s? _____ m.

2)



- The acceleration of the car is _____ m/s^2 .
- If the car continues to accelerate at this rate, find the velocity at time $t = 6.0$ s. _____ m/s.
- If the displacement at time $t = 0.0$ s is 0.0 m, find the displacement at $t = 6.0$ s. _____ m.

3) A rock falls from a 310 m cliff. Answer the following questions.

- The acceleration due to gravity is _____ m/s^2 .

b) The velocity at time $t = 2.8$ s is _____ m/s.

c) The distance traveled during the first 2.8 s is _____ m.

d) The time it takes the rock to hit the ground is _____ s.

Answers: 1)a) 0.0, b) 26, c) 6.5, d) 52, 2)a) 3.0, b) 18, c) 54, 3)a) -9.8, b) -27, c) 38, d) 8.0.