

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period #: \_\_\_\_\_

## Unit 1: Quiz 20

### ***1-Dimensional Motion***

1. A driver of a car going 90 km/h suddenly sees the lights of a barrier 40.0 m ahead. It takes the driver 0.75 s before he applies the brakes. Once he does begin to brake, he decelerates at a rate of  $10.0 \text{ m/s}^2$ . Does he hit the barrier?

2. Daniel, one of Park View's famous jumpers, can jump straight upwards at 15.0 m/s. How high is he when he is travelling:

a. 8.0 m/s upwards?

b. 8.0 m/s downwards?