

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

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

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

Unit 1: Quiz 11  
**1-Dimensional Motion**

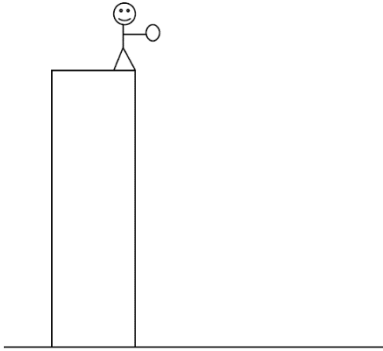
1. The speedometer in a car also has an odometer which records the distance traveled.



- a. If the odometer reads 25 km at the beginning of the trip and a half hour later it reads 60 km, what is the average speed?
- b. Would it be possible to attain this average speed and never exceed a reading of 70 km/h on the speedometer?
2. A cheetah can maintain a constant speed of 25 m/s. At that rate, how far will it travel in 10 seconds?



3. Suppose you drop a stone off a very tall building as shown below:



a. How fast is the stone falling after 3s?

b. How long does it take the stone to fall 75m?