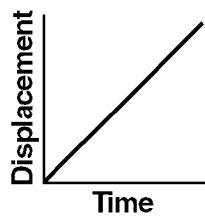




- 8) A basketball player jumped straight up to grab a rebound. If she was in the air for 0.80 second, how high did she jump?
- A) 1.2 m                      B) 3.1 m                      C) 0.78 m                      D) 0.50 m
- 9) The graph below represents the motion of an object.



According to the graph, as time increases, the velocity of the object

- A) increases                      B) remains the same                      C) decreases

Directions: Answer the following questions using the rubric below as a guide.

Writing a correct equation for the problem	1 point
Plug numbers into equation	1 point
Units on <i>ALL</i> numbers in work	1 point
Solving for Correct Final Answer with unit	2 point
<b>Total point per problem</b>	<b>5 points total</b>

1. A pilot stops a plane in 484 m using a constant acceleration of  $-8.0 \text{ m/s}^2$ . How fast was the plane moving before braking began? (assume x-direction motion only)

2. Mr. O'Leary throws his Wife's cat, Dory, off the roof of City Hall.

- a. If people hear Dory Meow-screaming for 4 seconds, how fast will she be travelling after this time? (assume y-direction motion only)



- b. How far did Dory fall during this time?

3. Roscoe Parrish has a vertical leap of 1.2 m.

- a. What must Roscoe's takeoff velocity be to reach this height?



- b. What is Roscoe's hang time? (total time in the air?)



