Name: __Answer Key_____ Period: _____ Date: _____

Position vs. Time Slope Quiz

Position vs. Time
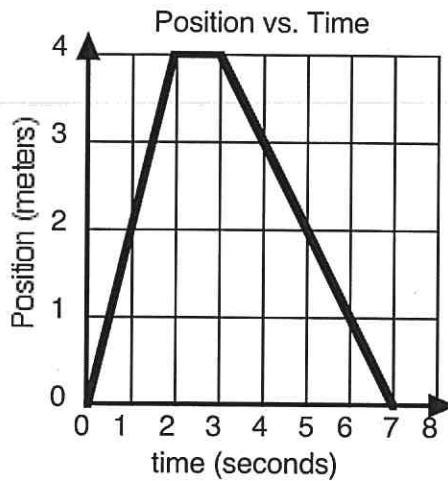
1. Based on the graph above, describe the motion of the object in words.

P.D.03 — moves in positive direction at constant velocity
— stops for a second
— moves in negative direction at constant velocity

2. Based on the graph above, what is the distance traveled by the object from 0-7 seconds?

P.D.01   8 m

3. Based on the graph above, what is the displacement of the object from 0-7 seconds?

P.D.01   0 m

4. What is the slope of the line from 0-2 seconds? Show all of your work for full credit.

P.D.04 $\dfrac{y_2 - y_1}{x_2 - x_1} = \dfrac{4 - 0}{2 - 0} = \dfrac{4}{2} = 2$

5. What is the velocity of the object from 3-7 seconds? Show all of your work for full credit.

P.D.04 $V = slope = \dfrac{y_2 - y_1}{x_2 - x_1} = \dfrac{0 - 4}{7 - 3} = \dfrac{-4}{4} = -1 \text{ m/s}$