

Quiz: Thursday - October 25/12 - Average Acceleration Problems

2 Problems

1. Bell Work
2. Return: Understanding Concepts: **Page 388, #3-5, 7, 9, 10-13**

\*Page 388, #6, 8 - Optional

3. Slope of Speed-Time Graph (Page 390)
4. Area Under the Line on a Speed-Time Graph (Page 391)
5. Understanding Concepts: Page 393 #2-6, 8, 11, 12

HW  
P3



## Bell Work: Science 10 - Tuesday, October 23/12

A car is struck from behind by a large truck. The impact lasts 0.10 s and causes an acceleration of  $45 \text{ m/s}^2$  of the car. What is the car's change in speed?

$t = 0.10 \text{ s}$

$a_{\text{ave}} = 45 \frac{\text{m}}{\text{s}^2}$

$\Delta v = ?$

$a_{\text{ave}} \cdot t = \Delta v$

$(45 \frac{\text{m}}{\text{s}^2}) (0.10 \text{ s}) = \Delta v$

$4.5 \frac{\text{m}}{\text{s}} = \Delta v$

ws.

$a_{\text{ave}} = \frac{\Delta v}{t}$

$a_{\text{ave}} \cdot t = \Delta v$

$(45 \frac{\text{m}}{\text{s}^2}) (0.10 \text{ s}) = \Delta v$

$4.5 \frac{\text{m}}{\text{s}} = \Delta v$

ws.