Name:_____ Date:_____

Mr. Croom's Physics Chapter 2: One Dimensional Motion

Average Velocity

Getting use to Manipulating the Equation

Solve the following equation for the variable marked.

1. $\bar{v} = \frac{\Delta d}{\Delta t}$

$\Delta d =$_____

2. $\bar{v} = \frac{\Delta d}{\Delta t}$

$\Delta t =$_____

3. $\bar{v} = \frac{\Delta d}{\Delta t}$

$d_f =$_____

4. $\bar{v} = \frac{\Delta d}{\Delta t}$

$t_f =$_____

Solve the following problems.

1. A car travels 3500m in 120 seconds what is the car's velocity?

2. How far does a car travel if it is going 20 m/s for 15 seconds.

3. How long does it take a car going 15 m/s to travel 450m

4. A car starts at the 30 mile marker on the interstate. It travels 65 mph for 2.5 hours. Where does it end up?

5. When the clock read 8 minutes and 50 seconds a wide receiver catches the football on the 20 yard line. Running 5 yards/s he runs toward the 50 yard line. If he is tackled when the clock reads 8 minutes and 43 seconds how far did he run? Where does he end up?