

**Physical Science II
Worksheet & “Thought Lab”
Momentum**

NAME _____ SEC _____ DATE _____

A. Typical momentum values for common objects

Find the momentum for each object.

1. Mr. Menin running at 8 m/s.
2. A 7 kg bowling ball rolling at 5 m/s.
3. A 900 kg car going 26 m/s (*this is a compact car going about 55 mph*).
4. A 140 kg linebacker running at 9.5 m/s.
5. A 12,000 kg truck sitting still at a red light.
6. A 12,000 kg truck going 35 m/s (*about 80 mph*).
7. A .004 kg snail going .0017 m/s.

B. Using the equation for momentum.

8. Mr. Menin’s momentum is 500 kg·m/s. What is his velocity?
9. A 1300 kg car has a momentum of 25,000 kg·m/s. What is its velocity?
10. A 2300 kg truck is found to have a momentum of 35,000 kg·m/s. How far does it go in 30 seconds?