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HW Unit 6:5 — Momentum Mr. Murray, IPC cstephenmurray.com

- 1. Why is it important that momentum is a vector?
- 2. Which has more momentum: a large parked car or a slow moving feather?
- 3. Why?
- 4. Which has more momentum: a fast moving bowling ball or a fast moving ping pong ball?
- 5. Why?
- 6. How can an object have negative momentum?

8. A 2 kg object is moving 5 m/s to the left. Calculate momentum.

- 9. What does the symbol " Σ " mean?
- 10. What is net momentum?
- 11. Calculate the net momentum of the two objects at the right.

2 m/s	6 m/s	
2 kg	3 kg	

7. A 4 kg object is moving 3 m/s to the right. Calculate momentum. 12. How does a balloon fly? (be specific and use physics terms)



- 14. If two objects have a net momentum of 50 kgm/s before they collide, how much momentum do they have afterwards?
- 15. When a person throws something to the right, what happens to the person?
- 17. A 5 kg gun shoots a .25 kg bullet. Both are at rest to begin with. If the gun goes backwards (recoils) to the left at 1 m/s, how fast does the bullet go? (*Use notes, bottom left.*)