Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_\_\_

**Ch 6.1 Momentum & Impulse -** Page 199 - Practice Problems A – Momentum

1. A deer with a mass of 146 kg is running head-on toward you with a speed of 17 m/s. You are going north. Find the momentum of the deer.
2. A 21 kg child on a 5.9 kg bike is riding with a velocity of 4.5 m/s to the northwest.
3. What is the total momentum of the child and the bike together?
4. What is the momentum of the child?
5. What is the momentum of the bike?
6. What velocity must a 1210 kg car have in order to have the same momentum as the pickup truck in Sample A. (p = 5.6 x 104 kg m/s to the east)