

Impulse and Momentum homework

Name: _____.

Class: 8_____

1.

1. A football player kicks a ball with a force of 50N. Find the impulse on the ball if his foot stays in contact with the football for 0.01s.

2.

2. A 0.5kg baseball experiences a 10N force for the duration of 0.1s. What is the change in velocity of the baseball?

3.

3. A hockey player applies an average force of 80N to a 0.25kg hockey puck for a time of 0.2s. Determine the impulse experienced by the hockey puck.

4.

4. A space shuttle burns fuel at the rate of 13,000kg in each second. Find the force exerted by the fuel on the shuttle if in 2s the shuttle experiences a change in momentum of 325,000kgm/s.