|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
| **PH 201 Post-Lab 10** | **Impulse and Momentum** | **Name** |  |

 |
|  |
| Last week in lab we made similar plots in Capstone for carts colliding with various bumpers. The photogate found a speed of 0.247 m/s for the cart before the collision and a speed of 0.072 m/s after the collision. |
|  |
| 1. What is the change of momentum (Δp) for this cart collision? |
|  |
|  |
|

|  |  |
| --- | --- |
| $$∆p=$$ |  |

 |
|  |
| 2. What is the duration of time during which the cart was in contact with the bumper? This was the Δt that you found last week |
|  |
|  |
|  |
|  |
|  |
|

|  |  |
| --- | --- |
| $$∆t=$$ |  |

 |
|  |
|  |
| 🡪 **Over 🡪** |
|  |
| 3. What was the mass of the cart? |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|

|  |  |
| --- | --- |
| $$m=$$ |  |

 |
|  |
| 4. What is the average force exerted by the bumper on the cart? |
|  |
|  |
|  |
|  |
|  |
|

|  |  |
| --- | --- |
| $$F\_{ave}=$$ |  |

 |
|  |
|  |
|  |