Prelab Questions

These questions need to be completed before entering the lab. Please show all workings.

Marker's Initials

Prelab 1

If the mass of an object is $0.412 \ kg$ and its velocity is $0.436 \ m/s$ **right**, what is the momentum? Note: Consider the positive $x \ axis$ to be to the right. Give your answer in unit vector notation.

Prelab 2

If the mass of an object is $0.412 \, kg$ and its velocity is $0.436 \, m/s$ **left**, what is the momentum? Give your answer in unit vector notation.

Prelab 3

The mass of an object is $(0.412 \pm 0.009) \, kg$ and its velocity is $(0.436 \pm 0.008) \, m/_S$ **left**. What is the magnitude of the momentum and its uncertainty?

STAPLE YOUR PRE-LAB TO THIS PAGE

Laboratory Worksheet:	
Name and Student Number:	
Partner's Name:	
Date:	

Momentum and Impulse

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Laboratory #5

QUESTION 1:

Physics 1020

Table 1: note: All masses can be found in the 2 attached files in the instructions.

	Mass	Uncertainty	Cart Label
Plastic Card			
Cart 1			
Total Mass for m_1			
Block			
Cart 2			
Total Mass for m_2			

QUESTION 2:

Table 2: note: Print a copy of *position vs time* graph with correct format.

	Value	Uncertainty
ν̄ _{1i} [m/s]		
\vec{v}_{2i} [m/s]		
\vec{v}_{1f} [m/s]		
\vec{v}_{2f} [m/s]		

CHECKPOINT: Instructor Initial



Staple your graph to the opposite page

QUESTION 3:

$$\overrightarrow{p}_i =$$

QUESTION 4:

$$\vec{p}_i =$$

QUESTION 5:

$$\overrightarrow{p}_f =$$

QUESTION 6:

$$\overrightarrow{p}_f =$$

QUESTION 7:

QUESTION 8:

QUESTION 9:

QUESTION 10:

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QUESTION 12:

QUESTION 13:

QUESTION 14:

QUESTION 15:

QUESTION 16: