

Data:

Mass of Cart 1	Mass of Cart 2	Position of Explosion	d_1	d_2	d_1/d_2	m_2/m_1

Diagram:



Error Analysis:

Conclusion:

Using complete sentences, address these four questions in your first paragraph of your conclusion.

1. Does the ratio of the displacements equal the ratio of the masses in each case? In other words, is momentum conserved?
2. When carts of unequal masses push away from each other, which cart has more momentum?
3. When the carts of unequal masses push away from each other, which cart experiences a greater force?
4. When the carts of unequal masses push away from each other, which cart experiences the greatest change in velocity?