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Momentum Word Problems Momentum Answer Key

Name: Key Period: _____ Date: _____

Physics Chapter 9 Review
Momentum-Impulse Theorem and Conservation of Momentum

Momentum $p = mv$ Impulse $J = F\Delta t$ Units $1 \text{ kg}\cdot\text{m/s} = 1 \text{ N}\cdot\text{s}$

1. A 21 kg child is riding a 5.9 kg bike with a velocity of 4.5 m/s.

a. What is the momentum of the child?
 $p = (21 \text{ kg})(4.5 \text{ m/s}) = 95 \text{ kg}\cdot\text{m/s}$

b. What is the momentum of the bike?
 $p = (5.9 \text{ kg})(4.5 \text{ m/s}) = 27 \text{ kg}\cdot\text{m/s}$

c. What is the momentum of the child and bike together?
 $p = (21 \text{ kg} + 5.9 \text{ kg})(4.5 \text{ m/s}) = 120 \text{ kg}\cdot\text{m/s}$

2. A 2250 kg pickup truck has a velocity of 25 m/s.

a. What is the momentum of the truck?
 $p = (2250 \text{ kg})(25 \text{ m/s}) = 56,000 \text{ kg}\cdot\text{m/s}$

b. How fast would a 1210 kg car need to travel in order to have the same momentum as the pickup truck?
 $p = mv$
 $56,000 \text{ kg}\cdot\text{m/s} = (1210 \text{ kg})v$
 $v = 46 \text{ m/s}$

3. A $7.0 \times 10^3 \text{ N}$ force is applied by the brakes to a car, stopping it in 3.0 s. What is the impulse applied to the car?
 $J = F\Delta t$
 $= (7.0 \times 10^3 \text{ N})(3.0 \text{ s})$
 $= 21,000 \text{ N}\cdot\text{s}$

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Momentum Word Problems Momentum Answer Key {Teresa Dunn was born in Kenya but left the place when she was very youthful. She now returns to assist a famed physician together with his function.

Why do we use it?

Momentum Word Problems Momentum Answer Key In an alternate 2018, itâ€™s been Practically forty five yrs since the UK as well as United states went to war, as well as nations remain bitter enemies. So when two Individuals are framed for an assault and meet up with young British law enforcement officer Luke Shiny, thereâ€™s outrage whenever a friendship types between them.

Where does it come from?

Momentum Word Problems Momentum Answer Key Every single phase of howâ€™from Moscow to Scandinavia on the open up oceanâ€™theyâ€™re hunted by a brutal Russian agent over a killer quest of his own. Away from loyalty to Paulinaâ€™useless or aliveâ€™Jenkins is putting everyoneâ€™s existence at stake for a new mission that might be his past.

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