

Question:

A 20.0 kg cannon attached to a cart with frictionless wheels contains a 5.0 kg cannon ball, and is initially moving to the right at 10 m/s. When the cannon is fired, the cannon ball moves in the positive- x direction while the cannon comes to a halt. What is the velocity of the cannon ball?

- +50 m/s
- +100 m/s
- +200 m/s
- +500 m/s
- 100 m/s

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Answer:

The correct answer is *a*. This is a conservation of momentum problem, and the cannon and the ball have the same total momentum before and after the cannon is fired.

Using the conservation of momentum equation:

$$\begin{aligned}
 m_{\text{cannon}} v_{\text{cannon}} + m_{\text{ball}} v_{\text{ball}} &= m_{\text{cannon}} v'_{\text{cannon}} + m_{\text{ball}} v'_{\text{ball}} \\
 (20\text{kg})(10\text{m/s}) + (5\text{kg})(10\text{m/s}) &= (20\text{kg})(0) + (5\text{kg})v'_{\text{ball}} \\
 250\text{kg} \cdot \text{m/s} &= 0 + (5\text{kg})v'_{\text{ball}}
 \end{aligned}$$

Rearrange:

$$v'_{\text{ball}} = \frac{250\text{kg} \cdot \text{m/s}}{5\text{kg}} = +50\text{m/s}$$

You can think of this kind of problem as a “perfectly inelastic collision in reverse.” In a perfectly inelastic collision, two objects with different velocities collide with each other and stick together so that they have one common final velocity. This is the same thing, but backwards: the two objects have a common initial velocity, and then fly apart to have different velocities at the end.

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Transformations Transport Phenomena Rethinking the Concept of Law of Nature Yemima Ben-Menahem, 2022-06-13 This book subjects the traditional concept of law of nature to critical examination There are two kinds of reasons that invite this reexamination one deriving from philosophical concerns over the traditional concept the other motivated by theoretical and practical changes in science One of the philosophical worries is that the idiom of law of nature especially when combined with the notion of laws governing individual events and processes is no longer as intelligible as it used to be in the theistic context in which the formulation of laws became central to science The traditional concept is also challenged in various ways by contemporary scientific theories such as quantum mechanics chaos theory and the general theory of relativity It is no longer clear that there are any universal laws laws do not always guarantee predictability and the border between physical and mathematical considerations is constantly shifting The most difficult challenge perhaps is to come up with a scientific explanation of the origin of laws Wrestling with these intriguing problems the papers in this volume broaden both our understanding of the natural order and our desiderata of scientific explanation **Physics** John D. Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2021-10-12 Physics 12th Edition focuses on conceptual understanding problem solving and providing real world applications and relevance Conceptual examples Concepts and Calculations problems and Check Your Understanding questions help students understand physics principles Math Skills boxes multi concept problems and Examples with reasoning steps help students improve their reasoning skills while solving problems The Physics Of boxes and new Physics in Biology Sports and Medicine problems show students how physics principles are relevant to their everyday lives A wide array of tools help students navigate through this course and keep them engaged by encouraging active learning Animated pre lecture videos created and narrated by the authors explain the basic concepts and learning objectives of each section Problem solving strategies are discussed and common misconceptions and potential pitfalls are addressed Chalkboard videos demonstrate step by step practical solutions to typical homework problems Finally tutorials that implement a step by step approach are also offered allowing students to develop their problem solving skills *College Physics* Michael Tammaro, 2018-12-18 Tammaro s College Physics First Edition will convert more students from passive to active learners through a unique presentation of material built from the ground up in a digital environment When students become active learners they study smarter by spending time on content that will help them improve their understanding of key concepts NOT skipping straight to the problems to find out what they don t know College Physics First Edition utilizes an assignable module structure with frequent assessment check points at various difficulty levels to ensure maximum points of student engagement and retention *MSCEIS 2019* Lala Septem Riza, Eka Cahya Prima, Toni Hadibarata, Peter John Aubusson, 2020-07-30 The 7th Mathematics Science and Computer Science Education International Seminar MSCEIS was held by the Faculty of Mathematics and Natural Science Education Universitas Pendidikan Indonesia UPI and the collaboration with 12 University associated in Asosiasi MIPA LPTK Indonesia AMLI consisting of Universitas Negeri

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