

## CHAPTER 7 | *IMPULSE AND MOMENTUM*

### *ANSWERS TO FOCUS ON CONCEPTS QUESTIONS*

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- (b) Kinetic energy,  $\frac{1}{2}mv^2$ , is a scalar quantity and is the same for both cars. Momentum,  $mv$ , is a vector quantity that has a magnitude and a direction. The two cars have different directions, so they have different momenta.
- (d) Momentum is a vector quantity that has a magnitude and a direction. The magnitudes ( $m_0v_0$ ) and directions (due north) are the same for both runners.
- The magnitude of the total momentum is  $47\,700\text{ kg}\cdot\text{m/s}$ .
- (d) According to the impulse-momentum theorem, the impulse is equal to the final momentum minus the initial momentum. Therefore, the impulses are the same in both cases, since the final momenta are the same and the initial momenta are the same. The impulse is also the product of the net average force and the time of impact. Since the impulses are equal and the time of impact is larger for the air mattress than for the ground, the air mattress exerts a smaller net average force on the high jumper.
- The impulse is  $+324\text{ kg}\cdot\text{m/s}$ .
- (c) According to the impulse-momentum theorem, the impulse is equal to the change in the particle's momentum. The magnitude of the momentum change is the same in regions A and C; therefore, in these regions the particle experiences impulses of the same magnitude. The momentum in region B is constant. Therefore, the change in momentum is zero, and so is the impulse.
- (b) According to the impulse-momentum theorem, the net average force is equal to the change in the particle's momentum divided by the time interval. This ratio is greatest in region C. The ratio is equal to zero in region B, since the change in the particle's momentum is zero there.
- Magnitude of net average force in Region A =  $1.0\text{ N}$ ,  
Magnitude of net average force in Region C =  $4.0\text{ N}$
- (d) Since there are no external forces acting on the rocket, momentum is conserved before, during, and after the separation. This means that the momentum of the rocket before the separation ( $+150\,000\text{ kg}\cdot\text{m/s}$ ) is equal to the sum of the momenta of the two stages after the separation [ $+250\,000\text{ kg}\cdot\text{m/s} + (-100\,000\text{ kg}\cdot\text{m/s}) = +150\,000\text{ kg}\cdot\text{m/s}$ ].

# Concept Development 7 1 Momentum Answer Key

**Hongru Du**



## Concept Development 7 1 Momentum Answer Key:

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**COBIT 5** Information Systems Audit and Control Association,2012      **R.R. Bowker's Software for Schools** ,1987      **Data Center Handbook** Hwaiyu Geng,2014-12-22 Provides the fundamentals technologies and best practices in designing constructing and managing mission critical energy efficient data centers Organizations in need of high speed connectivity and nonstop systems operations depend upon data centers for a range of deployment solutions A data center is a facility used to house computer systems and associated components such as telecommunications and storage systems It generally includes multiple power sources redundant data communications connections environmental controls e g air conditioning fire suppression and security devices With contributions from an international list of experts The Data Center Handbook instructs readers to Prepare strategic plan that includes location plan site selection roadmap and capacity planning Design and build green data centers with mission critical and energy efficient infrastructure Apply best practices to reduce energy consumption and carbon emissions Apply IT technologies such as cloud and virtualization Manage data centers in order to sustain operations with minimum costs Prepare and practice disaster recovery and business continuity plan The book imparts essential knowledge needed to implement data center design and construction apply IT technologies and continually improve data center operations

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*InfoWorld* ,1990-05-07 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and

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**Proceedings** American Society for Engineering Education. Conference, 1995      **Urban Land** , 2005      **The Publishers' Trade List Annual** , 1974      *The Catholic Periodical and Literature Index* , 2008      **Forthcoming Books** Rose Arny, 2002      *Paperbacks in Print* , 1972      Forest Science , 2003

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