

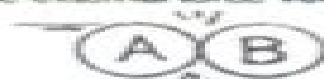
## Chapter 6 Momentum Systems

7 When the compressed spring is released, Blocks A and B will slide apart. There are 3 systems to consider, indicated by the closed dashed lines below—A, B, and A + B. Ignore the vertical forces of gravity and the support force of the table.

- a. Does an external force act on System A? ☒ Y ☐ N Will the momentum of System A change? ☒ Y ☐ N
- b. Does an external force act on System B? ☒ Y ☐ N Will the momentum of System B change? ☒ Y ☐ N
- c. Does an external force act on System A + B? ☒ Y ☐ N Will the momentum of System A + B change? ☒ Y ☐ N



8 Billiard ball A collides with billiard ball B at rest. Isolate each system with a closed dashed line. Draw only the external force vectors that act on each system.



System A

System B

System A + B

- a. Upon collision, the momentum of System A ☐ increases ☒ decreases ☐ remains unchanged
- b. Upon collision, the momentum of System B ☒ increases ☐ decreases ☐ remains unchanged
- c. Upon collision, the momentum of System A + B ☒ increases ☐ decreases ☐ remains unchanged

Note that external forces on System A and System B are internal to System A+B, so they cancel!



9 a. A girl jumps upward. In the left sketch, draw a closed dashed line to indicate the system of the girl.

Is there an external force acting on her?

Does her momentum change?

Is the girl's momentum conserved?

- b. In the right sketch, draw a closed dashed line to indicate the system (girl + Earth). Is there an external force acting on the system due to the interaction between the girl and Earth?



☒ Y ☐ N  
☒ Y ☐ N  
☒ Y ☐ N

☒ Y ☐ N

10 A block strikes a blob of jelly. Isolate 3 systems with a closed dashed line and show the external force on each. In which system is momentum conserved?



11 A truck crashes into a wall. Isolate 3 systems with a closed dashed line and show the external force on each. In which system is momentum conserved?



# Conceptual Physics Chapter 6 Momentum Answers

**Roger Freedman, David L. Tauck, Philip  
R. Kesten**



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**Conceptual Physics**, 1985 Rev ed of Conceptual physics a new introduction to your environment 4th ed 1981

**X+2 BOARD EXAM BASED CONCEPTUAL PHYSICS (Board Exam Made Simple)** L M Garg, 2023-03-15

**Holt Physics** Raymond A. Serway, 2002

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**Physics** John D. Cutnell, Kenneth W. Johnson, 1994-08-02 This text is designed for a one year course in college physics that uses algebra and trigonometry The book has three goals to help students develop

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