

Chapter 8 Momentum

Exercises

8.1 Momentum (page 125)

1. Define momentum. the mass of an object multiplied by its velocity
2. What is the equation for momentum? momentum = mass $\times$ velocity = mv
3. A moving object can have a large momentum if it has a(n) large mass, a(n) high speed, or both.

8.2 Impulse Changes Momentum (pages 125–129)

4. Is the following sentence true or false? If the momentum of an object changes, either the mass or the velocity or both change.
true
5. If a force is increased on an object, what happens to the velocity and the momentum?
There is a greater change in velocity and momentum.
6. The change in momentum depends on the force that acts and the length of time it acts.
7. What is the short-hand notation for impulse? impulse = $F\Delta t$
8. What is the formula that relates impulse and change in momentum?
 $F\Delta t = \Delta(mv)$
9. Explain why a baseball player follows through with his or her swing.
The baseball player wants to apply the greatest force possible for as long as possible so that the ball goes as far as possible.
10. Is the following sentence true or false? By hitting a soft object, such as a haystack, instead of a hard object, such as a concrete wall, you extend the contact time in which the momentum is brought to zero.
true
11. Circle the letter of each sentence that is true about impulse and momentum.
 - a. When jumping from an elevated position down to the ground, you should keep your legs stiff to decrease the momentum.
 - ☒ b. A wrestler thrown to the floor should extend his time hitting the mat by relaxing his muscles and spreading the impulse to his foot, knee, hip, ribs, and shoulder.
 - ☒ c. When a boxer gets punched, she should move her head away from the punch to increase the contact time and reduce the force.
 - ☒ d. A dropped dish is more likely to survive a fall on carpet rather than concrete, because the softness of the carpet leads to increased contact time.

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