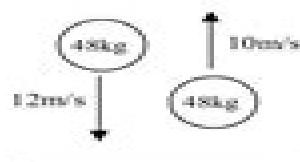


Name: _____

Period: _____

Momentum Basics

1. A 14 N force is applied for 0.33 seconds. Calculate the impulse.



2. A 48 kg object is moving 12 m/s down. It hits the ground and bounces up moving 10 m/s.
 - A. Which velocity is negative?
 - B. Calculate the initial momentum of the object.
 - C. Calculate the final momentum of the object.
 - D. Remembering that "change of" is always final – initial, what is the change of momentum of the object?



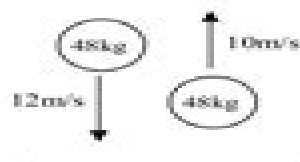
3. A 6 kg object starts at rest. It is then pushed by a 10 N force for 8 seconds.
 - A. How much initial momentum does the object have?
 - B. Calculate the impulse that acted on the object.
 - C. Since impulse equals a change of momentum, how much momentum did it gain?
 - D. How much momentum does it have afterwards?
 - E. Under the diagram, calculate the final velocity of the object.

Name: _____

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Momentum Basics

1. A 14 N force is applied for 0.33 seconds. Calculate the impulse.



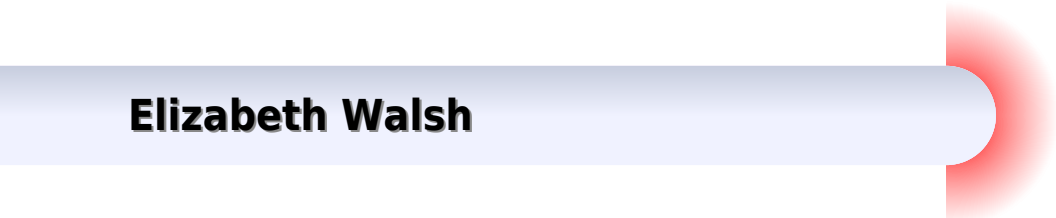
2. A 48 kg object is moving 12 m/s down. It hits the ground and bounces up moving 10 m/s.
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Elizabeth Walsh



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