

## **ConceptTest 14.0**



The reading quiz was ...  
(in terms of the ease of use,  
*not* in terms of physics)

- A) straightforward to use
- B) easy enough to use  
(no major problems)
- C) kind of difficult to use  
(some major problems)
- D) pain in the ...

## **ConceptTest 14.0**



**I feel that I learned some physics  
from the reading quiz.**

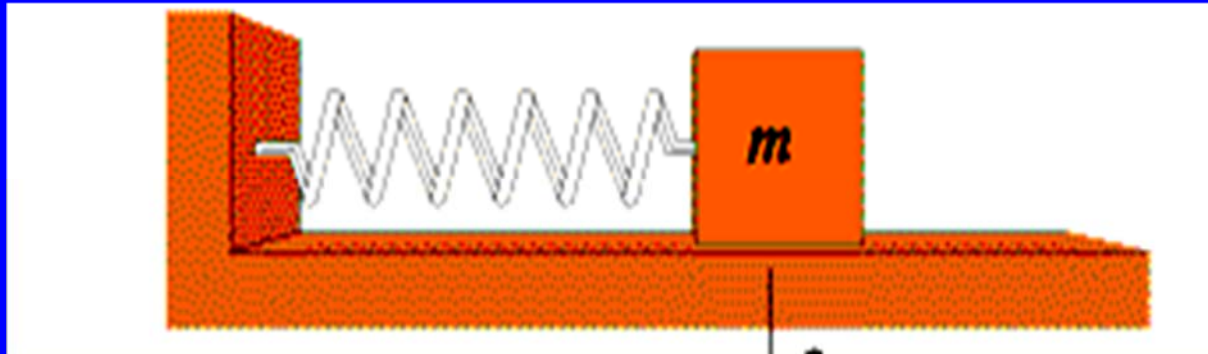
- A) yes, most definitely**
- B) don't know ... but it surely  
made me think hard**
- C) it made me totally  
confused, overall ...**
- D) not at all**

## ConceptTest 14.1a Harmonic Motion I



A mass on a spring in SHM has **amplitude  $A$**  and **period  $T$** . What is the **total distance traveled** by the mass after a time interval  $T$ ?

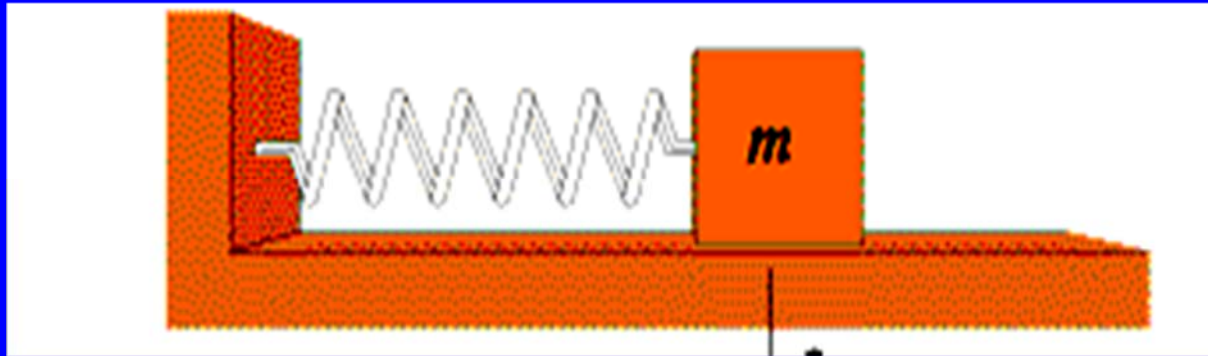
- 1) 0
- 2)  $A/2$
- 3)  $A$
- 4)  $2A$
- 5)  $4A$



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- 1) 0
- 2)  $A/2$
- 3)  $A$
- 4)  $2A$
- 5)  $4A$



In the time interval  $T$  (the period), the mass goes through one complete oscillation back to the starting point. The distance it covers is  $A + A + A + A$  ( $4A$ ).