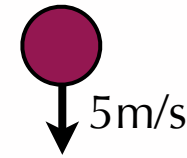


## Quiz #4

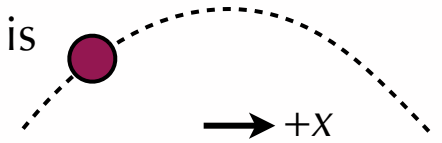
1. An object is falling through the air at constant velocity 5m/s.  
The net force on the object

- A) points upward      B) points downward      C) is zero**



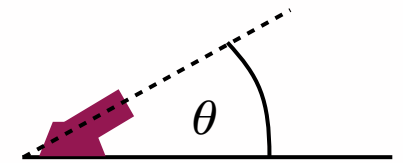
2. A ball is thrown through the air. The horizontal component  $a_x$  of the ball is

- A)  $-9.8\text{m/s}^2$       B)  $0\text{m/s}^2$       C)  $+9.8\text{m/s}^2$**



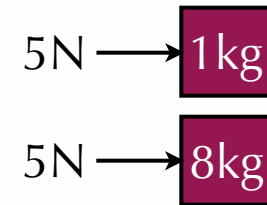
3. What angle  $\theta$  should a cannon be shot to get the farthest range?

- A)  $0^\circ$       B)  $30^\circ$       C)  $45^\circ$       D)  $60^\circ$       E)  $90^\circ$**



4. The same constant force, 5N, is applied to two different blocks. If both blocks start at rest, which is moving faster after 5 seconds?

- A) the 1kg block      B) the 8kg block**  
**C) they both move the same speed**

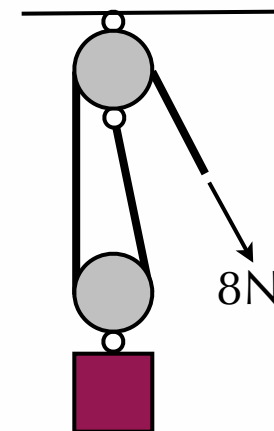


5. My mass on the moon is \_\_\_\_ my mass on Earth.

- A) larger than      B) the same as      C) smaller than**

6. The figure shows a pair of ideal pulleys and a massless rope. If 8N of force is placed on the free end of the rope, how much force is applied upward on the bottom pulley?

- A) 4N      B) 8N      C) 12N      D) 16N      E) 24N**

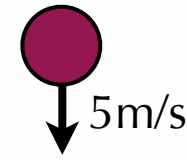


## Quiz #4

CBCABD

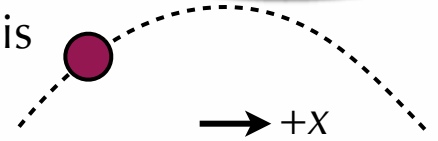
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The net force on the object

- A) points upward    B) points downward    C) is zero



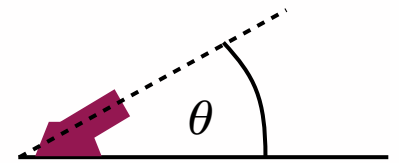
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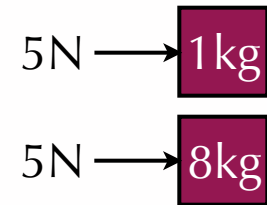
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