

Questions 5–7 refer to the following material.



Figure 1



Figure 2

Note: Figures not drawn to scale.

The figures above show a small block of mass 0.20 kg on a track in the shape of a circular arc. The block is released from rest at a height H above the floor, as shown in Figure 1. The block slides along the track with negligible friction and leaves it at a height of 0.40 m above the floor and a speed of 3.0 m/s at a 30° angle, as shown in Figure 2.

5. The height H is most nearly
- (A) 0.45 m
 - (B) 0.51 m
 - (C) 0.86 m
 - (D) 1.7 m
6. The magnitude of the gravitational force exerted on the block is F_g , and the magnitude of the normal force exerted by the track on the block is F_n . Which of the following correctly compares the magnitudes of these two forces when the block is at the lowest point on the track?
- (A) $F_n > F_g$
 - (B) $F_n = F_g$
 - (C) $F_n < F_g$
 - (D) The magnitudes cannot be compared without knowing the radius of the arc of the track.
7. After the block leaves the track, what is the block's speed when it reaches the highest point of its motion?
- (A) 0
 - (B) 1.5 m/s
 - (C) 2.6 m/s
 - (D) 3.0 m/s

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Kenneth Rideout, Jonathan Wolf



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