Momentum HW 1 (8476089)

Question Details OSColPhys1 8.1.001. [215	3186]
(a) Calculate the momentum of a 1950 kg elephant charging a hunter at a speed of 7.50 m/s. kg·m/s (b) Compare the elephant's momentum with that of a 0.0400 kg bullet fired at a speed of 600 m/s. (momentum of elephant / momentum of bullet)	
(c) What is the momentum of the 90.0 kg hunter running at 7.50 m/s after missing the elephant? kg·m/s	
Additional Materials	
Reading	
 Question Details OSColPhys1 8.1.004. [215	3356]
(a) What is the momentum of a 1.20×10^4 kg garbage truck moving at 29.0 m/s? kg·m/s (b) At what speed would an 8.00 kg trash can have the same momentum? m/s	
Additional Materials	

3. Question Details OSColPhys1 8.3.023. [2153595]

Train cars are coupled together by being bumped into one another. Suppose two loaded train cars are moving toward one another, the first having a mass of 150,000 kg and a velocity of 0.300 m/s, and the second having a mass of 125,000 kg and a velocity of -0.120 m/s. (The minus indicates direction of motion.) What is their final velocity?

m/s

Additional Materials

Reading

4. Question Details OSColPhys1 8.5.043. [2153700]

In a circus an elderly performer thrills the crowd by catching a canon ball shot at him. The cannon ball has a mass of 16.0 kg and its horizontal component of velocity is 9.50 m/s when the 65.0 kg performer catches it. If the performer is on nearly frictionless roller skates, what is his recoil velocity?

m/s

Additional Materials

Reading

Assignment Details

Name (AID): Momentum HW 1 (8476089)

Submissions Allowed: 10 Category: Homework

Code:

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