

Physics

301

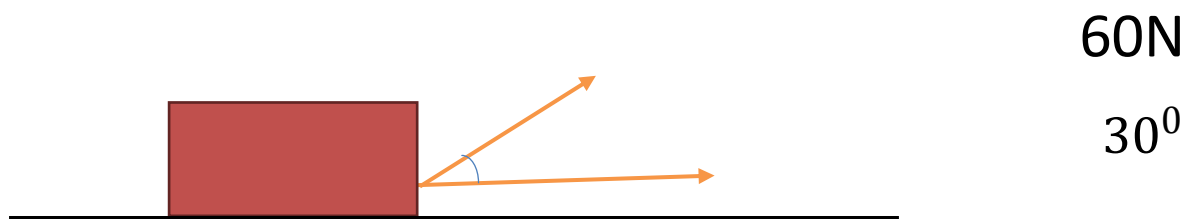
The first question: Find the following

A - Convert the value 55mm to pm ?

B -Someone walks in a straight line at a speed of -20m/s and $4\text{m} / \text{s}^2$ is accelerated from the site ($X_i = 10\text{m}$)

What is the position of the person when he stops walking?

C - A man pulls a box of 10kg on a rough horizontal surface with a fixed strength of 60N at an angle of 30 degrees with the horizontal and moved a distance of 5m if the kinetic coefficient of friction is 0.2 then calculate the following:



- 1- The work that the man did
- 2- Run the force of friction
- 3- Run the vertical force
- 4- Occupying gravity
- 5- The outcome of occupancy on the box

D - A ball with a mass of 4kg at a speed of 4m/s hit another static ball with a mass of 10kg, and the first bounced at a speed of 1m/s immediately after the collision in the same track. Find the speed of the second ball immediately after the collision?

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