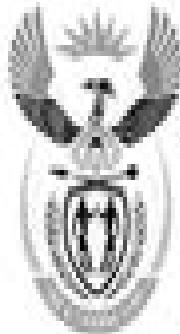


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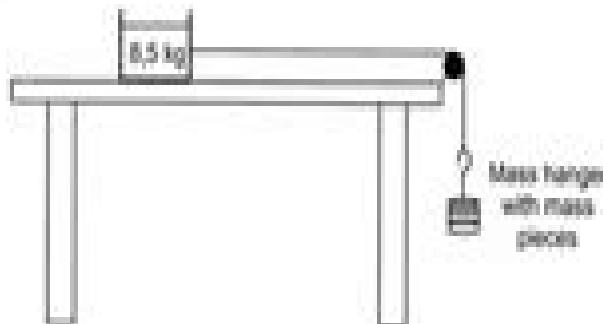
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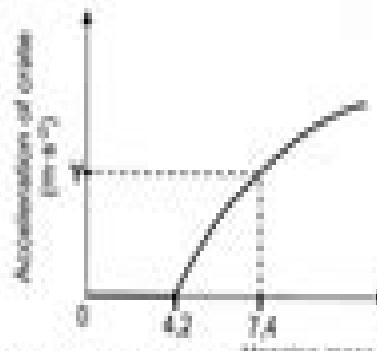
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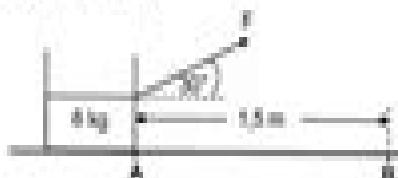
I times by adding different masses to increase the hanging mass each time, the effects of air friction.



Results obtained were used to draw the sketch graph below.



Notes: (a) The hanging mass adds to the greatest distance A moves to the left, when mass B moves to the right and then up a horizontal inclined plane, being at maximum height of 1.5 m, as shown in the diagram below.



to work done by a force.

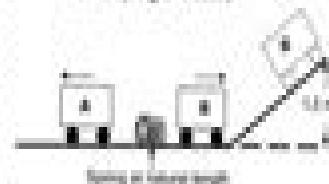
of free-body diagram showing ALL the forces acting on the cart.

BY PRINCIPLES ONLY, calculate the magnitude of force F.

Before spring is released



After spring is released



Ignore the masses of the wheels.

- (a) Why does the process of conservation of mechanical energy is used.
- (b) Calculate the speed of cart at B at the instant of the inclined plane.
- (c) For the 1 second that the spring takes to return to its natural length,

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