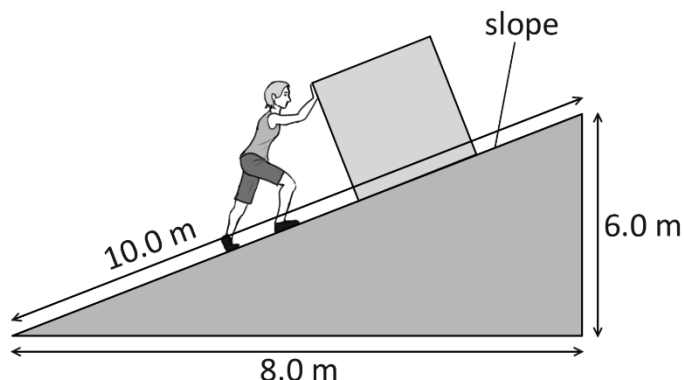


Name:

Class:



The figure shows a person pushing a box from the bottom of a slope to the top of the slope.



Explain which one of the three distances shown in the figure above should be used to calculate the work done **against the force of friction** between the box and the slope.

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A car accelerated from 0.12 m/s to 0.52 m/s. The acceleration of the car was 0.040 m/s². The work done to accelerate the car was 0.48 J.

Calculate the resultant force needed to accelerate the car.

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Resultant force = ...

Polonium-210 is a radioactive isotope that decays by emitting alpha radiation. Complete the decay equation for polonium-210

