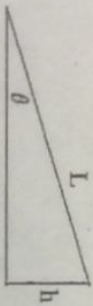


Uphill run

In the initial state, the student is at rest at the bottom of the hill. In the final state, the student is running with some velocity at the top of the hill.

Considering this system to be closed and assuming the human body is 100% efficient (no heat generated) complete the bar chart.

Data:



$$L =$$

$$\theta =$$

Name	mass (kg)	time (sec)	v (m/sec)	U_{gr} (J)	K_f (J)	Total Energy (J)	Power (watts)	Power (hp)

1 horsepower = 746 watts