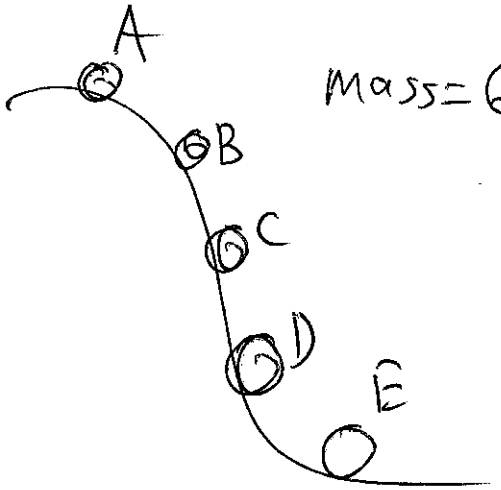
Jeopardy Make Up assignment



mass = 6 kg

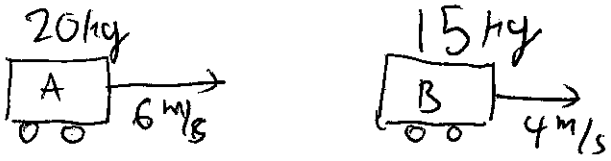
	KE	GPE	Total E
A	0	550	
B	120		
C	300		
D		100	
E		0	

- Find the speed at point D.

- Find the height at point B.

	Before			After	
	A	B		A	B
m					
v			Total		
p					

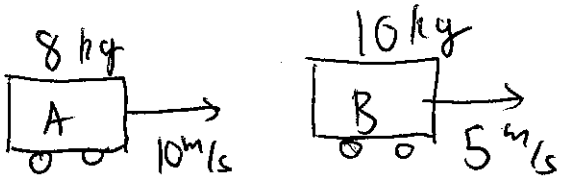
Before



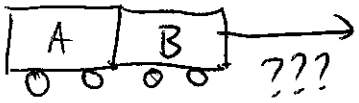
After

	Before			After
	A	B		A + B stuck together
m				
v			Total	
p				

Before

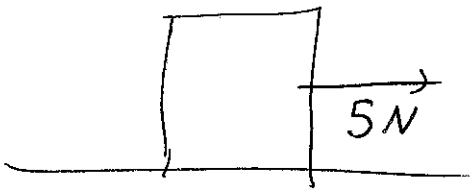


After



They are stuck together

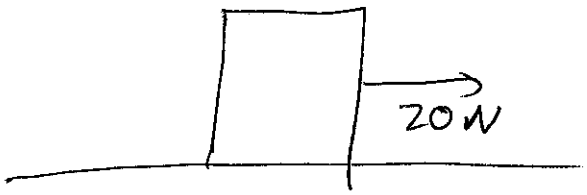
Dynamics



mass = 8kg

No friction

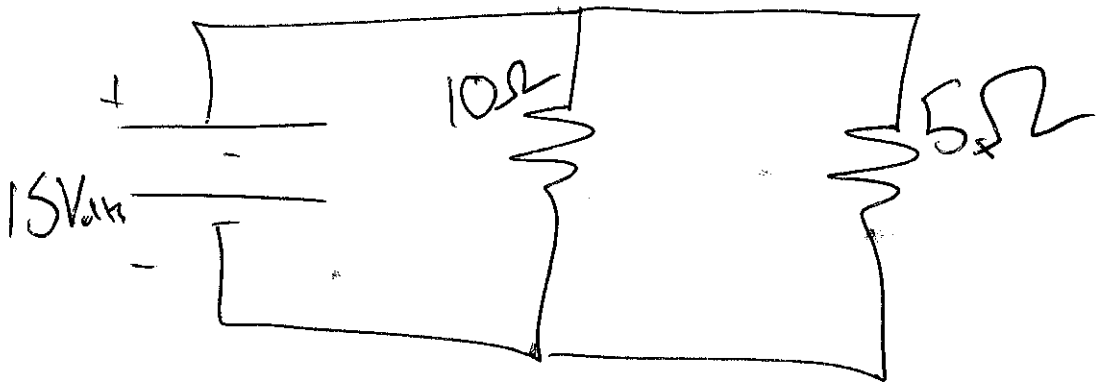
- Draw a quantitatively correct free-body diagram.
- find net fore
  magnitude + direction
- find acceleration
  magnitude + direction



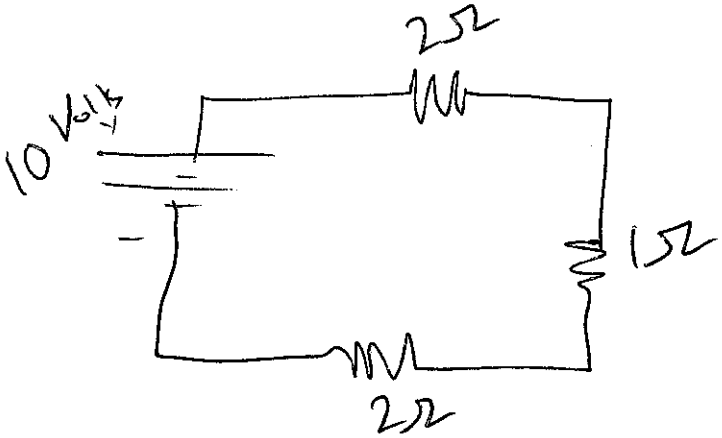
mass = 9 kg

$\mu_k = 0.08$

- Draw a quantitative correct free-body diagram
- find net force
  magnitude + direction
- find acceleration
  magnitude + direction



	A	B	Total
V			
I			
R			



	A	B	C	Total
V				
I				
R				

Jeopardy Make Up

Formulas for Reference

$V = IR$

$KE = \frac{1}{2} m v^2$

$P = IV$

$GPE = mgh$

$\sum F = ma$

$F_g = m \cdot g$

$F_{fric} = \mu_k \cdot F_N$

$p = m \cdot v$