Reminders 9-27-10:

- -Quiz Wednesday on Chapter 4
- -Next Homework Due September 28
- -Update grades will be posted on Blackboard under the "Course Files" tab
- -Tutors
- -Exam 2 Ch 4-6 Mon. Oct. 18

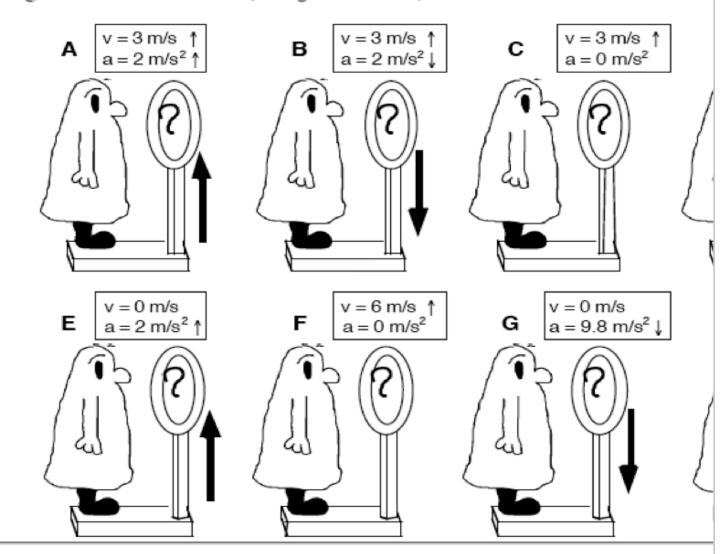
Objectives:

- -Newton's Laws + Examples
- -Sliding Friction+ Examples
- -Work

Title: Aug 26-10:24 PM (1 of 7)

The figures below depict situations where a person is standing on a scal elevators. Each person weighs 600 N when the elevators are stationary. moves (accelerates) according to the specified arrow that is drawn next to it the elevator is moving, it is moving <u>upward</u>.

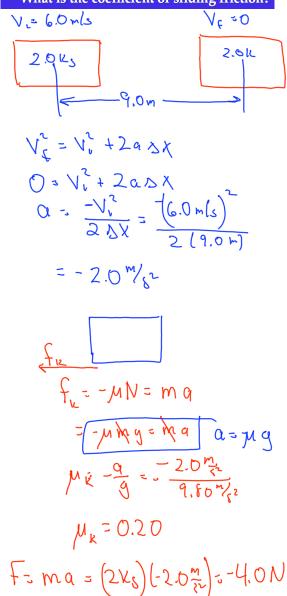
Rank the figures, from greatest to least, on the basis of the *scale weight* registered on each scale. (Use $g = 9.8 \text{ m/s}^2$.)



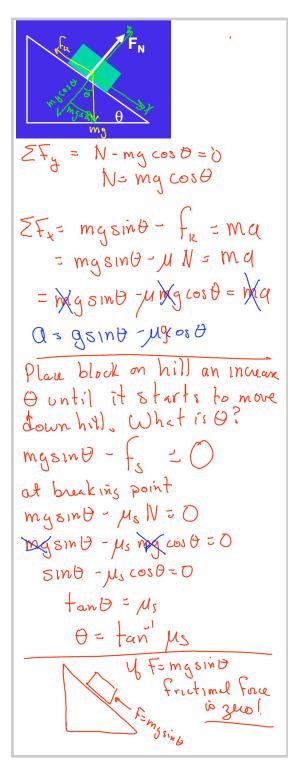
Title: Sep 27-12:41 PM (2 of 7)

A 2.0 kg block is given a push such that its initial velocity 6.0 m/s. It comes to a stop after traveling 9.0 m.

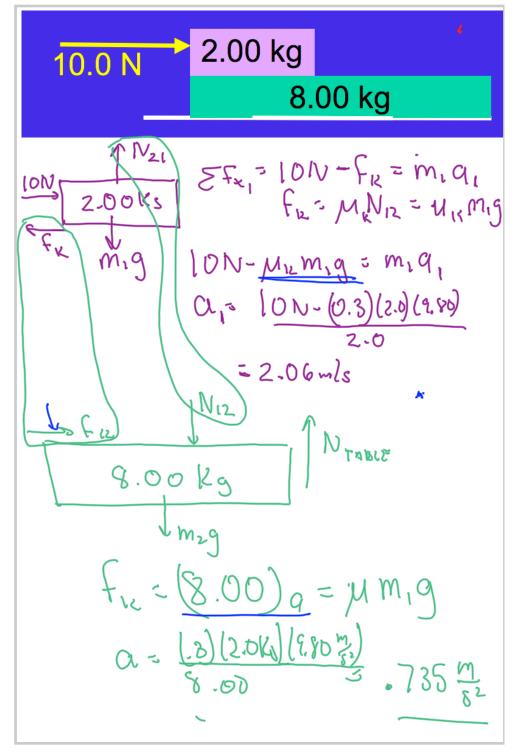
- What is the object's acceleration?
- What is the frictional force acting on block?
- What is the coefficient of sliding friction?



Title: Sep 27-1:01 PM (3 of 7)



Title: Sep 27-1:10 PM (4 of 7)



Title: Sep 27-1:20 PM (5 of 7)

- Examples of work
 - How much work is done in lifting a 11 1m?

 1m?

 √ = m y 1m = 1(7.78) 1
 - How much work is done on a wall if I for 1 minute? 5 minutes? 60 minutes?
 - How much work is done by the floor v jump? Now_
 - A horse pulls a cart with a force of 4.0 What is the work done on the cart afte traveled 11 m?

Title: Sep 27-1:44 PM (6 of 7)

- Examples of work
 - How much work is done in lifting a 1 1m? $\approx 1 m = 1 (9.8)$
 - How much work is done on a wall if for 1 minute? 5 minutes? 60 minutes?
 - How much work is done by the floor jump? Nove
 - A horse pulls a cart with a force of 4.0 What is the work done on the cart after traveled 11 m? (□□□N)(□□m) = □□
 - A block is pulled with a force of 5.0 N distance of 3 m. The frictional force a block is 3 N. What is the work done o

W= (5N-3N)(3m)=61

Title: Sep 27-1:45 PM (7 of 7)