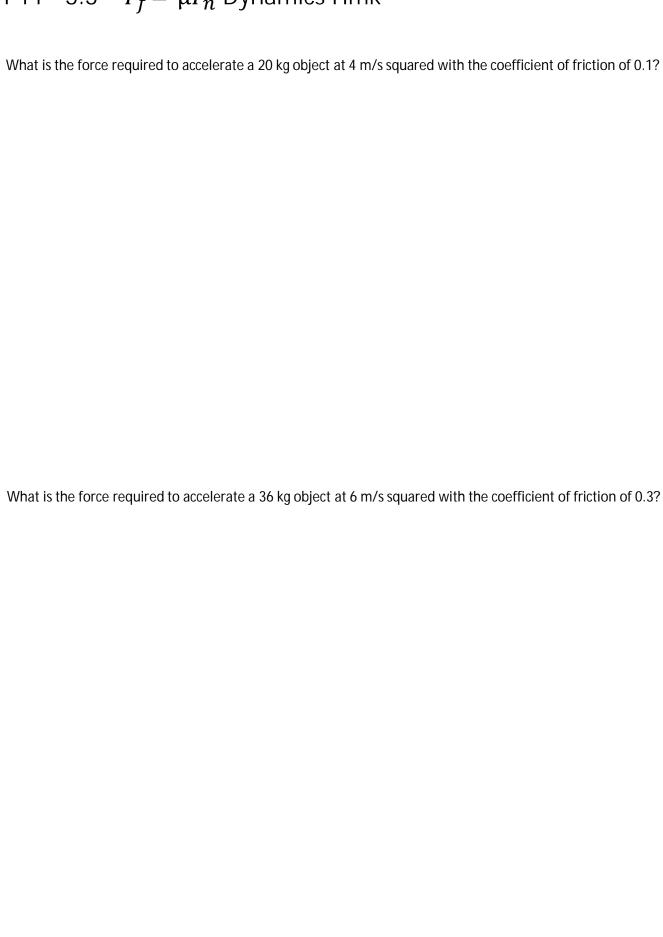
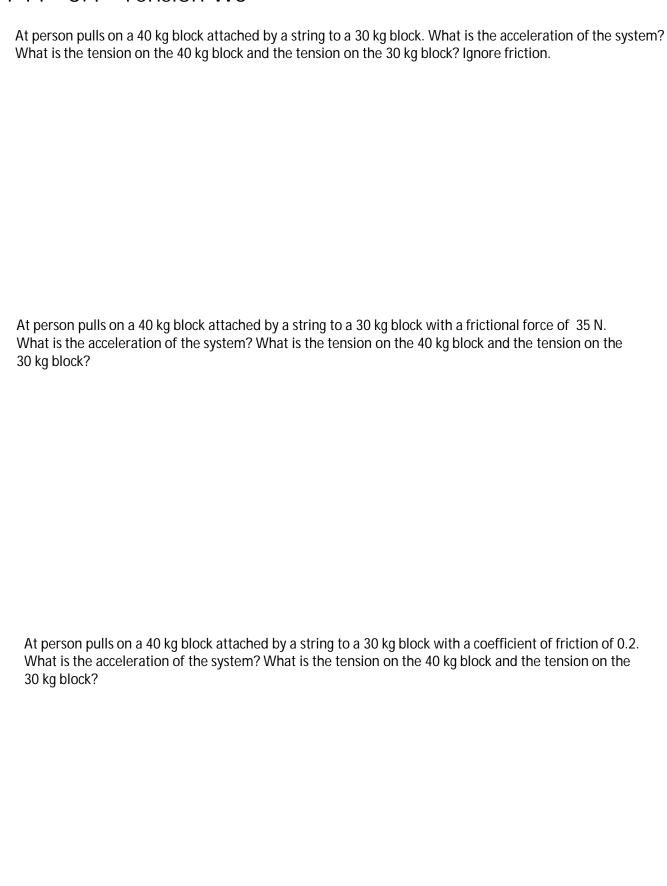
# P11 - 3.2 - F = ma Newton's Laws Hmk

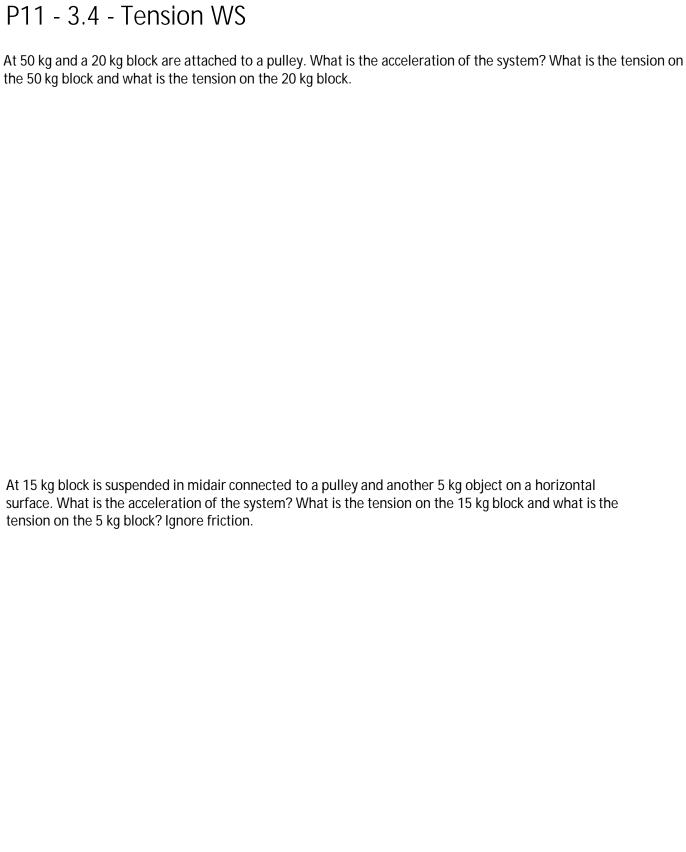
What is the force required to accelerate a 12 kg object at 5 m/s squared?	What is the force required to accelerate a 17 kg object at 3 m/s squared?
What is the force required to accelerate an 8 kg object at 4 m/s squared with the frictional force of 2 N?	What is the force at 6 m/s squared with the frictional force of 3 N?
A force of 20 N is applied to a 5 kg object. Find its acceleration.	A force of 16 N accelerates an object at 4 m/s squared. Find the mass of the object. What is the objects weight?
An applied 36 N on a 9 kg object accelerates it at 3 m/s squared? What is the frictional force?	What is the force required to accelerate a 20 kg object at 4 m/s squared with the coefficient of friction of 0.1?

# P11 - 3.3 - $F_f = \mu F_n$ Dynamics Hmk



#### P11 - 3.4 - Tension WS





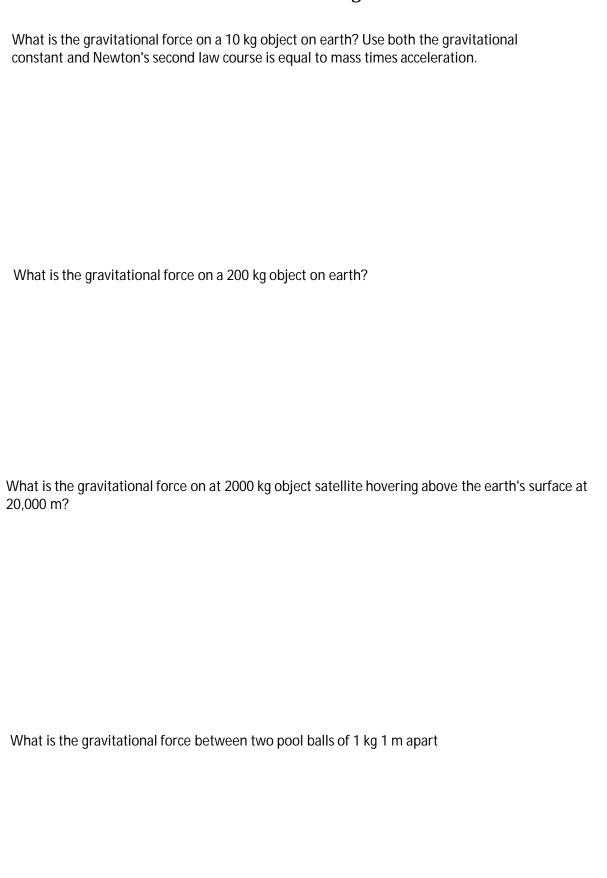
# P11 - 3.5 - Elevator Hmk

What is the weight of a 30 kg object on a scale in Newton's in a stationary elevator?
What is the weight of a 30 kg object on a scale in a elevator moving at a constant velocity of 10 m/s?
What is the weight of a 30 kg object on a scale in an elevator accelerating upwards at 3 m/s squared?
What is the weight of a 30 kg object on a scale and an elevator accelerating downwards at 5 m/s squared?

# P11 - 3.6 - Kinematics Dynamics Link

What is the force required to accelerate a	a 10 kg object from rest to 12 m/s in eig	ht seconds?
How far did the object go?	What is the velocity after seven seconds?	How long will it take to reach 36 m/s?
What is the mass of an object which ca	n accelerate at 2 m/s squared from rats	to 8 m/s in 20 m?

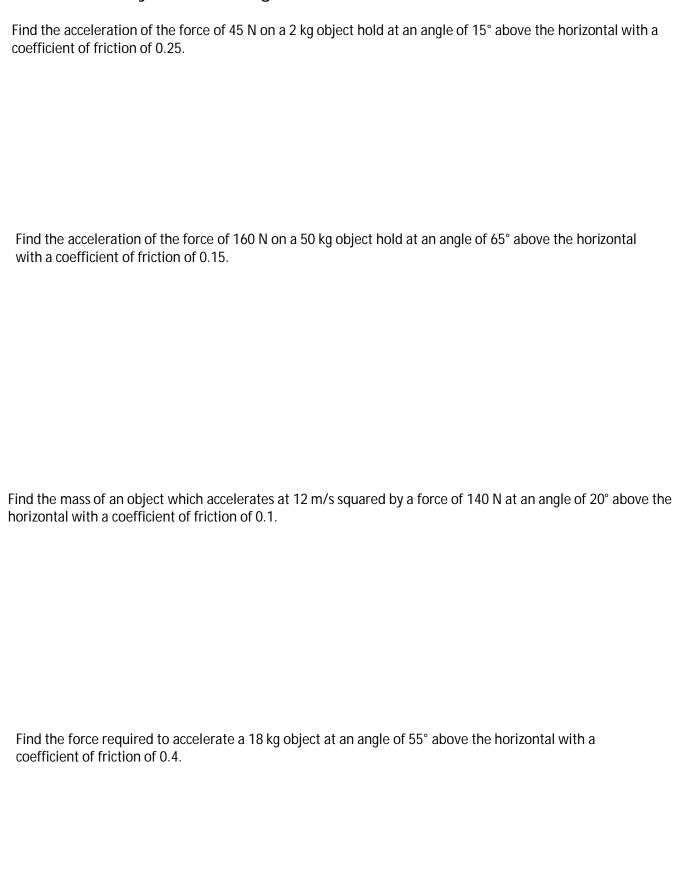
# P11 - 3.7 - Gravitational Force $F_g$



### P12 - 3.8 - Dynamics Trig HMK



### P12 - 3.8 - Dynamics Trig Fric HMK



## P12 - 3.9 - Dynamics Fric Slope HMK

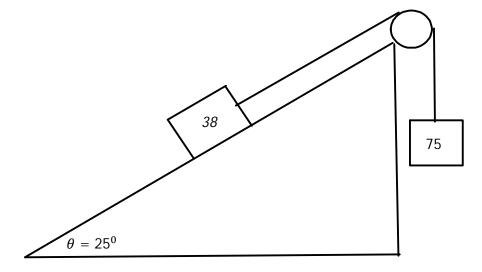
12 3.7 By Harrings i The Stope Thiving
Find the acceleration of an 8 kg block sliding down a 40° frictionless slope.
Find the acceleration of an 26 kg block sliding down a 60° frictionless 60° slope.
Find the acceleration of a 5 kg block sliding down a 45° slope with a coefficient of friction of 0.2.
Find the acceleration of a 12 kg block sliding down a 20° slope with the coefficient of friction of 0.05.

### P12 - 3.9 - Dynamics Pull Fric Slope HMK

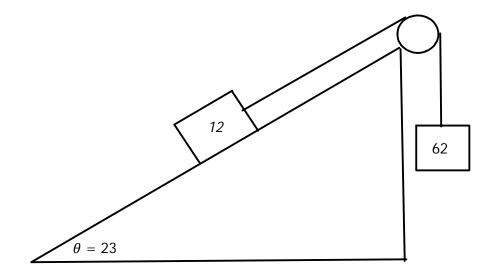
P12 - 3.9 - Dynamics Pull Fric Slope filvik
Find the force required to accelerate a 12 kg object at 5 m/s squared up a frictionless 25° slope
Find the acceleration of an 80 Newton force on a 8 kg object up a frictionless slope of 42°.
Find the force required to accelerate a 16 kg object at 3 m/s squared up a 35° slope with a coefficient of friction of 0.15.
Find the acceleration of a 65 Newton force on a 10 kg object up a slope of 48° with the coefficient of friction of 0.2.
This the acceleration of a 65 Newton force on a 10 kg object up a slope of 45° with the coefficient of metion of 6.2.

# P12 - 3.9 - Dynamics Pulley Fric Up Slope HMK

Find the acceleration of the system and the tension on both blocks?

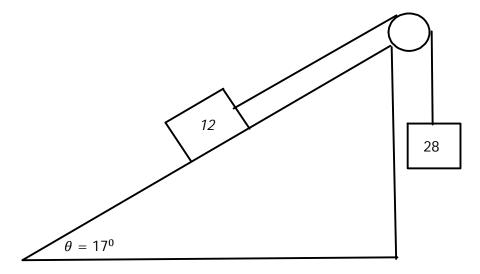


Find the acceleration of the system and the tension on both blocks?



# P12 - 3.9 - Dynamics Pulley Fric Up Slope HMK

Find the acceleration of the system and the tension on both blocks?



Find the acceleration of the system and the tension on both blocks?

