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In this topic, we will see an  
application of Newton ' s Second  
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**Solutions** movement, which will help us to solve elevator problems in Physics with ease. From Newton ' s Second Law we can derive the equation of Force. If  $F$  is the net force applied on an object of mass  $m$  and the mass moves with an acceleration  $a$  then

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the equation goes like this,  $F = m$   
a.

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Solutions; Thermodynamics; Electricity and magnetism; Optics; Elevator Task number: 1982. The cabin of a fully loaded elevator has a mass of 1 200 kg. The cabin must be lifted to a height of 54 m in 3.0 min. The counterbalance has mass of only 950 kg, so the engine of the ...

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Elevator Problem This is an application of Newton's second law to the forces felt in an elevator.

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Solutions Weight In An Elevator –  
Inertia Example Problem 1 This  
entry was posted on August 9,  
2014 by Todd Helmenstine  
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When you stand on a scale, the  
scale ' s reading is a measure of

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your weight. Weight In An  
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ï ¿ ½ ï ¿ ½ Petra Himmel Subject:

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Problems And Solutions Keywords

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Solution : (a) the elevator is at

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rest. The elevator is at rest so there is no acceleration ( $a = 0$ )  
We choose the upward direction in the positive direction and the downward direction in the negative direction.  $F = m a$ .  $N - w = 0$  .  
 $N = w$  .  $N = 500$  Newton (b) the elevator is moving downward at a

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constant velocity. Constant  
velocity so there is no acceleration  
( $a = 0$ )

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Your basic elevator problem has two types  
Your basic elevator problem has two types: 1 You look at the Elevator or object being raised up as a whole and your two forces are the Force of Tension ( $F_T$ ) holding it up

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The elevator cable snaps, and the elevator (with you inside!) begins to fall! Perhaps you have time for one last Physics observation!

Question 13: What does the scale



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read as the elevator falls?

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Problem # 6 In the figure below, solve for A, B, and C. Answer: A = 1, B = -19.6, C = -29.4

Problem # 7 Person 1 is inside an elevator, with inside height  $h$ , that is moving downward at a constant velocity of  $V_e$ . This person observes a ball

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drop from the top of the elevator to the bottom, while Person 2 is on the ground and also observes this.

Free Fall Problems - Real World  
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practice problem 1. A person  
stands in an elevator weighing a

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cheeseburger with a kitchen scale. (It could happen.) The mass of the cheeseburger is 0.150 kg. The scale reads 1.14 N. Draw a free body diagram showing all the forces acting on the cheeseburger. Determine the weight of the cheeseburger. Determine the

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magnitude and direction of the net force on the cheeseburger.

Dynamics - Practice – The Physics  
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this case, we do not need to use all of the steps. We simply identify the physical principles, and thus the knowns and unknowns; apply Newton ' s second law; and check to see whether the answer is reasonable.

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**Solutions** Kinematic equations relate the variables of motion to one another. Each equation contains four variables. The variables include acceleration ( $a$ ), time ( $t$ ), displacement ( $d$ ), final velocity ( $v_f$ ), and initial velocity ( $v_i$ ). If values of three variables are

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**Solutions** known, then the others can be calculated using the equations. This page demonstrates the process with 20 sample problems and accompanying ...

Kinematic Equations: Sample Problems and Solutions

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**1-D Force Problem: Apparent Weight in an Elevator** You are standing on a scale in an elevator on the 4th floor of the science building. As the elevator begins to descend to the first floor, you notice that the scale reads only 85% of your weight. What is the

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acceleration of the elevator during  
that period of time?

1-D Force Problem: Apparent  
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Download solution Problem # H-3:  
A remote controlled toy car is  
driven off the edge of a ramp, at

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point A, at a speed of 3 m/s. It lands at point B. If the edge of the ramp is at a height of 0.8 m, and it is inclined at  $20^\circ$  with the horizontal, what is the horizontal distance,  $L$ , between point A and point B? Download solution

Problem # H-4:



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