

C1 Test Lab Questions - C1 Valid Test Topics

Lab C1

Today, you will test two competing hypotheses that students have proposed about collisions. You will do this by analyzing data from several elastic collisions between two weighted carts on a level, low-friction track. To collect data, you will create your own videos for each of the collisions.

This lab is focusing on the ability to test experimentally a scientific statement (hypothesis). For HW, you will submit the Conclusion portion of a lab report. (Use the Lab C Rubric as a guideline. A copy is in the lab and in the Lab C1 - Draft Report assignment in Canvas.)

Note: An understanding of momentum is **not** required to complete this lab successfully.

Learning Objectives

- Design an experiment to test a scientific prediction (hypothesis)
- Make an evidence-supported judgement about a scientific prediction
- Communicate the point and findings of an experiment
- Identify the shortcomings in an experiment and suggest improvements

1. Data Collection for Two Colliding Carts

1.1 Familiarize yourself with the equipment:

- 1.2 m track with leveling feet and a level that can be used to level the track.
- Two 500 g carts with four 500 g cart weights. One side of each cart has a magnet to allow the carts to repel without physically touching - so the collision is nearly elastic.
- Green tape that has been placed on both the track and cart to help in recording the cart position.
- Meter stick and a scale to determine inertia/mass
- Video camera (use the built-in functionality on a smartphone or tablet)
- Timer (use the built-in functionality of a cell phone)

1.2 Track Levelling - Below are some steps you can follow to make sure your linear track is level. Do not take more than about 10 minutes for this.

- Place the bubble-level at the center of the track. Adjust the feet on the track until the bubble inside the level is inside the center circle. Repeat with the level at each end of the track, adjusting the feet as necessary. Then test the center of the track again and repeat as necessary.
- Place an unloaded cart at a few locations along the track and be sure it does not roll to one side.
- Place a second unloaded cart at the center of the track (with the magnets on the carts facing each other and repelling). Gently push the first cart toward the second. After the carts collide be sure that the first comes to a complete stop (of its own accord) and doesn't roll after the collision.

1.3 Qualitative observation of a collision: Place two 500 g weights in each cart and roll one cart toward the other, stationary, cart. Practice this a few times and record any relevant observations in your Lab Notebook. (For example, describe the motion of each cart before and after the collision.)

Consider the following questions before collecting quantitative data:

- Is there a range of speeds that you think would allow you to collect good data?

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WorldatWork Regulatory Environments for Compensation Programs Sample Questions (Q58-Q63):

NEW QUESTION # 58

Which of the following statements regarding the Worker Economic Opportunity Act is most accurate?

- A. Employees are not required to participate
- B. Stock options may be granted at a 20% discount
- C. Employers must include stock profits in overtime calculations.
- D. Employees must hold options for at least 3 months.

Answer: A

NEW QUESTION # 59

Which of the following best describes severance allowances?

- A. A practice of paying a lump sum to employees during a company shutdown
- B. A continuation of an employee's salary after termination
- C. A portion of one's salary paid during reserve duty and military leave
- D. A continuation of a portion of an employee's salary to a beneficiary after the death of an employee

Answer: B

NEW QUESTION # 60

Your company has had a strong fiscal year with a 15% increase in net income over the prior fiscal year. Share prices are at an all time high. Working with Finance, you have arrived at a 2.5% merit increase budget for the next fiscal year, a smaller increase than the last fiscal year. Finance has indicated that some large capital expenditures will be needed next year, so the company needs to conserve resources. Additionally, Legal is in final negotiations on a lawsuit that may be very costly to the company. Word of the smaller increases has line management concerned that they will lose their best performers. Given all of these factors, what is your best course of action?

- A. Recommend a reduction in force to eliminate poor performers, which will increase the merit budget by reducing headcount
- B. Implement the merit increase budget as is because the anticipated financial obligations have made it necessary
- C. Gather the perspectives of all stakeholders, analyze their individual concerns and meet to determine whether a compromise solution is possible
- D. Meet with Finance and make a case for a larger merit increase budget because the loss of key talent will cost more over the long term than the savings from the smaller merit increases

Answer: C

NEW QUESTION # 61

Regarding compensation communications with executives, where do they tend to need the greatest level of understanding?

- A. In the details of their individual compensation packages
- B. In the overall program objectives
- C. In the differences in pay levels for the different levels of the organization
- D. In the methods and processes used to make pay decisions

Answer: B

NEW QUESTION # 62

What type of pay increase is given when an organization finds that its compensation program is behind competitive market rates?

- A. Merit

- B. Cost of living
- C. General
- D. Automatic

Answer: C

NEW QUESTION # 63

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