



SESSION 2: SCIENCE
POST-TEST EXAMINATION (40
items)

I. SCIENCE ASSESSMENT

PHYSICS

- John is driving a car when a man suddenly crosses the road. He honks his horn and 3 seconds later, John hears the echo from a nearby wall. If the speed of sound is 343 m/s, how far away is the wall?
 - 212.5 meters
 - 313.5 meters
 - 414.5 meters
 - 514.5 meters.

Explanation:

GIVEN:

$$t = 3 \text{ sec}$$

$$v_{\text{sound}} = 343 \text{ m/s}$$

ASKED:

$$d = ?$$

FORMULA:

$$d = vxt$$

SOLUTION:

An echo occurs when a sound wave travels from the source, hits an obstacle (the wall), and is reflected to the source. The total time John takes to hear the echo is the time it takes for the sound to travel to the wall and return to him.

$$2d = vxt$$

Substitute the values:

$$2d = (343 \frac{\text{m}}{\text{s}} \times 3\text{s})$$

$$d = \frac{(343 \frac{\text{m}}{\text{s}} \times 3\text{s})}{2}$$

$$d = 514.5 \text{ meters}$$

- Jeremy is comparing two objects. The first weighs 4 kg and has a force of 16 N applied to it, while the second weighs 5 kg and has a force of 10 N applied. Which object will experience greater acceleration?
 - The 4 kg body
 - The 5 kg body
 - Both have the same acceleration
 - None of them

Explanation:

According to Newton's Second Law of Motion, which states that acceleration equals the force applied divided by the object's mass. For the first object, which has a mass of 4 kg and a force of 16 N applied, the acceleration is calculated as 16 N divided by 4 kg, resulting in an acceleration of 4 m/s². For the second object, with a mass of 5 kg and a force of 10 N applied, the acceleration is 10 N divided by 5 kg, resulting in an acceleration of 2 m/s². Therefore, the 4 kg body experiences greater acceleration.

- Jean is trying to loosen a bolt using a wrench. She applies a force perpendicularly at a distance of 0.2 meters from the pivot point. How much torque does Sarah generate if she applies a force of 500 N?
 - 160 Nm
 - 140 Nm
 - 120 Nm
 - 100 Nm

Explanation:

GIVEN:

$$r = 0.2 \text{ m} \quad ;$$

$$F = 500 \text{ N} \quad ;$$

$$\theta = 90 \text{ degrees}$$

ASKED: $F = ?$

FORMULA: $\tau = rF\sin\theta$

SOLUTION:

$$\tau = rF\sin\theta$$

$$\tau = rF\sin\theta$$



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Robert R. Redfield



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Table of Contents Gradpoint Answers For Posttest

1. Understanding the eBook Gradpoint Answers For Posttest
 - The Rise of Digital Reading Gradpoint Answers For Posttest
 - Advantages of eBooks Over Traditional Books
2. Identifying Gradpoint Answers For Posttest
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gradpoint Answers For Posttest
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gradpoint Answers For Posttest
 - Personalized Recommendations

- Gradpoint Answers For Posttest User Reviews and Ratings
- Gradpoint Answers For Posttest and Bestseller Lists
- 5. Accessing Gradpoint Answers For Posttest Free and Paid eBooks
 - Gradpoint Answers For Posttest Public Domain eBooks
 - Gradpoint Answers For Posttest eBook Subscription Services
 - Gradpoint Answers For Posttest Budget-Friendly Options
- 6. Navigating Gradpoint Answers For Posttest eBook Formats
 - ePub, PDF, MOBI, and More
 - Gradpoint Answers For Posttest Compatibility with Devices
 - Gradpoint Answers For Posttest Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gradpoint Answers For Posttest
 - Highlighting and Note-Taking Gradpoint Answers For Posttest
 - Interactive Elements Gradpoint Answers For Posttest
- 8. Staying Engaged with Gradpoint Answers For Posttest
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gradpoint Answers For Posttest
- 9. Balancing eBooks and Physical Books Gradpoint Answers For Posttest
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gradpoint Answers For Posttest
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gradpoint Answers For Posttest
 - Setting Reading Goals Gradpoint Answers For Posttest
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gradpoint Answers For Posttest
 - Fact-Checking eBook Content of Gradpoint Answers For Posttest

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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