

This print-out should have 40 questions. Multiple-choice questions may continue on the next column or page – find all choices before answering.

001 10.0 points

The Joule and the kilowatt-hour are both units of energy.

19.2 kW · h is equivalent to how many Joules?

Correct answer: 6.912×10^7 J.

Explanation:

$$1 \text{ W} = 1 \text{ J/s}$$

$$\begin{aligned} 19.2 \text{ kW} \cdot \text{h} &= (19.2 \text{ kW} \cdot \text{h}) \cdot \frac{1000 \text{ W}}{\text{kW}} \cdot \frac{3600 \text{ s}}{1 \text{ h}} \\ &= 6.912 \times 10^7 \text{ W} \cdot \text{s} \\ &= \boxed{6.912 \times 10^7 \text{ J}}. \end{aligned}$$

002 10.0 points

A cheerleader lifts his 59.9 kg partner straight up off the ground a distance of 0.557 m before releasing her.

The acceleration of gravity is 9.8 m/s^2 .

If he does this 27 times, how much work has he done?

Correct answer: 8828.19 J.

Explanation:

The work done in lifting the cheerleader once is

$$\begin{aligned} W_1 &= m g h \\ &= (59.9 \text{ kg})(9.8 \text{ m/s}^2)(0.557 \text{ m}) \\ &= 326.97 \text{ J}. \end{aligned}$$

The work required to lift her $n = 27$ times is

$$W = n W_1 = (27)(326.97 \text{ J}) = 8828.19 \text{ J}.$$

003 10.0 points

A student weighing 709 N climbs at constant speed to the top of an 9 m vertical rope in 14 s.

What is the average power expended by the student to overcome gravity?

Correct answer: 455.786 W.

Explanation:

$$\begin{aligned} \text{Let : } F &= 709 \text{ N}, \\ d &= 9 \text{ m}, \quad \text{and} \\ t &= 14 \text{ s}. \end{aligned}$$

The power expended is

$$\begin{aligned} P &= \frac{W}{t} = \frac{F d}{t} \\ &= \frac{(709 \text{ N})(9 \text{ m})}{14 \text{ s}} \\ &= \boxed{455.786 \text{ W}}. \end{aligned}$$

004 10.0 points

You leave your 75 W portable color TV on for 7 hours each day and you do not pay attention to the cost of electricity.

If the dorm (or your parents) charged you for your electricity use and the cost was \$0.1/kW · h, what would be your monthly (30 day) bill?

Correct answer: 1.575 dollars.

Explanation:

$$\begin{aligned} \text{Let : } P &= 75 \text{ W} \quad \text{and} \\ t &= 7 \text{ h/day}, \end{aligned}$$

The energy consumed in each day is

$$\begin{aligned} W &= P t \\ &= (75 \text{ W})(7 \text{ h/day}) \cdot \frac{\text{kW}}{1000 \text{ W}} \\ &= 0.525 \text{ kW} \cdot \text{h/day}. \end{aligned}$$

In 30 days, you would use

$$(30 \text{ day})(0.525 \text{ kW} \cdot \text{h/day}) = 15.75 \text{ kW} \cdot \text{h},$$

which would cost you

$$(15.75 \text{ kW} \cdot \text{h})(\$0.1/\text{kW} \cdot \text{h}) = \boxed{\$1.575}.$$

Ut Quest Physics Solutions

Scott C. Dulebohn



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Table of Contents Ut Quest Physics Solutions

1. Understanding the eBook Ut Quest Physics Solutions
 - The Rise of Digital Reading Ut Quest Physics Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Ut Quest Physics Solutions
 - 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 Ut Quest Physics Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ut Quest Physics Solutions

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

- Fact-Checking eBook Content of Ut Quest Physics Solutions
- 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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