

A 20 kg object moving at 24 m/s slows to 3 m/s due to friction.

A) How much energy is converted to heat?

The loss of E_k turns to Q .

$$E_{k_i} = \frac{1}{2}(20)(24)^2 = 5760 \text{ initial}$$

$$E_{k_f} = \frac{1}{2}(20)(3)^2 = 90 \text{ final}$$

so $\Delta E_k = 5670 \text{ J}$

B) If the box absorbs three-fourths of the energy, how much does it gain?

$$5670(.75) = 4253 \text{ J}$$

C) Is the box or the floor a better conductor?

box - because it absorbs more of the Q .

D) If the box is made up copper and originally at 22°C, what is its final temperature after it stops?

$$Q = mc\Delta T = 20(387)(T_f - 22)$$

$$4253 = 7740(T_f - 22)$$

$$.549 = T_f - 22$$

$$T_f = 22.549^\circ\text{C}$$

If a piece of wood and a piece of metal of equal mass are laying on a table in the sun.

A) After a while, which one will be hotter?

metal

B) Why?

conductor - lower C_p

A 250 g iron bolt at 70°C is dropped into an 100g aluminum calorimeter of containing 200 g of water.

If the water and calorimeter are at room temperature (22°C) to begin with, find the final temperature when they come to thermal equilibrium? * see below

$$m_{\text{iron}} = .25 \text{ kg}$$

$$m_{\text{water}} = .2 \text{ kg}$$

$$m_{\text{cal}} = .1 \text{ kg}$$

$$-Q_{\text{hot}} = Q_{\text{cold water}} + Q_{\text{cold calorimeter}}$$

$$-m c \Delta T = m_{\text{H}_2\text{O}} c \Delta T + m c \Delta T$$

$$-.25(448)(T_f - 70) = .2(4184)(T_f - 22) + .1(899)(T_f - 22)$$

$$= (T_f - 22)(837.2 + 89.9)$$

$$-112(T_f - 70) = (T_f - 22)927.1$$

$$-112T_f + 7840 = 927.1T_f - 20396$$

$$2.8 \times 10^4 = 1039T_f$$

$$26.9^\circ\text{C} = T_f$$

* - we put a negative on the left side because it is already negative (it is losing Q).

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Horace



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Table of Contents Heat And Thermo 1 Answer Key Stephen Murray

1. Understanding the eBook Heat And Thermo 1 Answer Key Stephen Murray
 - The Rise of Digital Reading Heat And Thermo 1 Answer Key Stephen Murray
 - Advantages of eBooks Over Traditional Books
2. Identifying Heat And Thermo 1 Answer Key Stephen Murray
 - 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 Heat And Thermo 1 Answer Key Stephen Murray
 - User-Friendly Interface
4. Exploring eBook Recommendations from Heat And Thermo 1 Answer Key Stephen Murray
 - Personalized Recommendations
 - Heat And Thermo 1 Answer Key Stephen Murray User Reviews and Ratings
 - Heat And Thermo 1 Answer Key Stephen Murray and Bestseller Lists
5. Accessing Heat And Thermo 1 Answer Key Stephen Murray Free and Paid eBooks
 - Heat And Thermo 1 Answer Key Stephen Murray Public Domain eBooks
 - Heat And Thermo 1 Answer Key Stephen Murray eBook Subscription Services
 - Heat And Thermo 1 Answer Key Stephen Murray Budget-Friendly Options
6. Navigating Heat And Thermo 1 Answer Key Stephen Murray eBook Formats

- ePub, PDF, MOBI, and More
 - Heat And Thermo 1 Answer Key Stephen Murray Compatibility with Devices
 - Heat And Thermo 1 Answer Key Stephen Murray Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Heat And Thermo 1 Answer Key Stephen Murray
 - Highlighting and Note-Taking Heat And Thermo 1 Answer Key Stephen Murray
 - Interactive Elements Heat And Thermo 1 Answer Key Stephen Murray
 8. Staying Engaged with Heat And Thermo 1 Answer Key Stephen Murray
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Heat And Thermo 1 Answer Key Stephen Murray
 9. Balancing eBooks and Physical Books Heat And Thermo 1 Answer Key Stephen Murray
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Heat And Thermo 1 Answer Key Stephen Murray
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Heat And Thermo 1 Answer Key Stephen Murray
 - Setting Reading Goals Heat And Thermo 1 Answer Key Stephen Murray
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Heat And Thermo 1 Answer Key Stephen Murray
 - Fact-Checking eBook Content of Heat And Thermo 1 Answer Key Stephen Murray
 - 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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