

An object is dropped from atop a 20 m tall building. How fast is it going just before it hits the ground?

$$\begin{aligned}
 PE &= KE \\
 mgh &= \frac{1}{2}mv^2 \\
 gh &= \frac{1}{2}v^2 \\
 v^2 &= 2gh \\
 v &= \sqrt{2gh} = \sqrt{2(10)(20)} = \sqrt{20(20)} = 20 \text{ m/s}
 \end{aligned}$$

OR - if using a kinematic eq.

$$\begin{aligned}
 v_f^2 &= v_i^2 + 2\Delta y \\
 v_f^2 &= 0 + 2g(h) \\
 v_f &= \sqrt{2gh}
 \end{aligned}$$

A 5 kg object is moving 8 m/s. It stops due to friction. Calculate the force of friction.



$$KE - W_{fr} = 0$$

$$KE = W$$

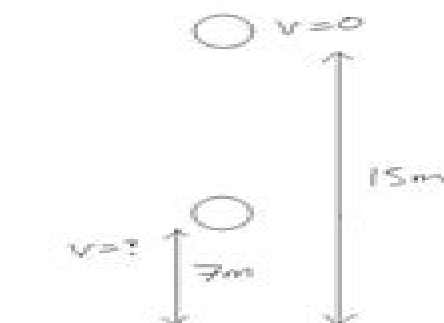
$$\frac{1}{2}mv^2 = Fd$$

$$F = \frac{mv^2}{2d} = \frac{5(8^2)}{2(10)} = \frac{5(64)}{2(10)} = \frac{5(6.4)}{2} = 5(3.2) = 15 + 1 = 16 \text{ N}$$

double check

$$\begin{aligned}
 v_f^2 &= v_i^2 + 2\Delta x \\
 0 &= 64 + 2a(10) \\
 -64 &= 20a \\
 a &= -3.2 \text{ m/s}^2 \\
 F &= ma \\
 &= 5(3.2) \\
 &= 16 \text{ N}
 \end{aligned}$$

An object is dropped from 15 m in the air. How fast is it going when it is still 7 m above the ground?



$$PE_{top} = (KE + PE)_{in between}$$

$$mgh_{top} = \frac{1}{2}mv^2 + mgh_{in} \quad (m = \text{cancels})$$

$$10(15) = \frac{1}{2}v^2 + 10(7) \quad \text{or}$$

$$150 = \frac{1}{2}v^2 + 70$$

$$80 = \frac{1}{2}v^2$$

$$160 = v^2$$

$$v = \sqrt{16(10)} = 4\sqrt{10} = 12.7 \text{ m/s}$$

$$\Rightarrow 10(15) - 10(7) = \frac{1}{2}v^2$$

$$10(15 - 7) = \frac{1}{2}v^2$$

$$10(8) = \frac{1}{2}v^2$$

or

$$mgh = \frac{1}{2}mv^2$$

It is like pretending that the ground is at 7 m. All that really matters is the change of PE to KE.

Conservation Of Energy Stephen Murray Answer Key

ML Morrison



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Table of Contents Conservation Of Energy Stephen Murray Answer Key

1. Understanding the eBook Conservation Of Energy Stephen Murray Answer Key
 - The Rise of Digital Reading Conservation Of Energy Stephen Murray Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Conservation Of Energy Stephen Murray Answer Key
 - 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 Conservation Of Energy Stephen Murray Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conservation Of Energy Stephen Murray Answer Key
 - Personalized Recommendations
 - Conservation Of Energy Stephen Murray Answer Key User Reviews and Ratings
 - Conservation Of Energy Stephen Murray Answer Key and Bestseller Lists
5. Accessing Conservation Of Energy Stephen Murray Answer Key Free and Paid eBooks

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