

NAME: _____

DATE: _____



This roller coaster starts at rest at point A. As it goes to lower points it will pick up speed. When it starts, the potential energy is high and point A will be converted to kinetic energy. When there is no friction, the total mechanical energy is conserved. The sum of PE and KE at any point on the track will always be the same. Use this fact to answer the following questions. The mass of the block is 10kg.

$$PE = mgh$$

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

1. What is the block's potential energy at point A?

$$600J$$

2. What is the block's kinetic energy at point B?

$$600J$$

3. What is the block's velocity at point B?

$$20m/s$$

4. What is the block's potential energy at point C?

$$300J$$

5. What is the block's kinetic energy at point C?

$$300J$$

6. What is the block's speed at C?

$$14.1m/s$$

7. Does height (potential energy) tell the block how fast the ball is going when the speed is half of its speed at the bottom?

$$PE = 300J \quad PE = 150J$$

8. Does height (potential energy) tell the block how fast along the right side?

$$20m/s$$



Phyzjob Answers Roller Coaster

**American Association of Physics
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Phyzjob Answers Roller Coaster:

Amusement Park Physics American Association of Physics Teachers. Amusement Park Physics Handbook Committee, 2001 **Roller Coaster Ride** John Allan, 2020-06

The book delves into Physjob Answers Roller Coaster. Physjob Answers Roller Coaster is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physjob Answers Roller Coaster, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physjob Answers Roller Coaster
 - Chapter 2: Essential Elements of Physjob Answers Roller Coaster
 - Chapter 3: Physjob Answers Roller Coaster in Everyday Life
 - Chapter 4: Physjob Answers Roller Coaster in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Physjob Answers Roller Coaster. This chapter will explore what Physjob Answers Roller Coaster is, why Physjob Answers Roller Coaster is vital, and how to effectively learn about Physjob Answers Roller Coaster.
 3. In chapter 2, this book will delve into the foundational concepts of Physjob Answers Roller Coaster. This chapter will elucidate the essential principles that need to be understood to grasp Physjob Answers Roller Coaster in its entirety.
 4. In chapter 3, the author will examine the practical applications of Physjob Answers Roller Coaster in daily life. This chapter will showcase real-world examples of how Physjob Answers Roller Coaster can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Physjob Answers Roller Coaster in specific contexts. The fourth chapter will explore how Physjob Answers Roller Coaster is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Physjob Answers Roller Coaster. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physjob Answers Roller Coaster.

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