

**SECTION 1** Measuring Motion continued

The average speed of the dog is:

$$\text{average speed} = \frac{\text{total distance walked}}{\text{total time}} = \frac{7 \text{ m}}{10 \text{ s}} = .07 \text{ m/s}$$

**What Is Velocity?**

Suppose that two birds leave the same tree at the same time. They both fly at 10 km/h for 5 min, then 5 km/h for 10 min. However, they don't end up in the same place. Why not?

The birds did not end up in the same place because they flew in different directions. Their speeds were the same, but because they flew in different directions, their velocities were different. **Velocity** is the speed of an object and its direction. **ET**

The velocity of an object is constant as long as both speed and direction are constant. If a bus driving at 15 m/s south speeds up to 20 m/s south, its velocity changes. If the bus keeps moving at the same speed but changes direction from south to east, its velocity also changes. If the bus brakes to a stop, the velocity of the bus changes again.

The table below shows that velocity is a combination of both the speed of an object and its direction.

Speed	Direction	Velocity
15 m/s	south	15 m/s south
20 m/s	south	20 m/s south
20 m/s	east	20 m/s east
0 m/s	east	0 m/s east

Velocity changes when the speed changes, when the direction changes, or when both speed and direction change. The table below describes various situations in which the velocity changes.

Situation	What changes
Skidding falling layer and basket	
Runner going around a turn on a track	direction
Car taking an exit off a highway	speed and direction
Train arriving at a station	speed
Baseball being caught by a catcher	speed
Baseball hit by a batter	
	speed and direction

**READING CHECK**

**B. Analyze** Someone tells you that the velocity of a car is 55 m/s. Is this correct? Explain your answer.

**Say It**

**Share Experiences** Have you ever experienced a change in velocity on an amusement park ride? In pairs, share an experience. Explain how the velocity changed—was it a change in speed, direction, or both?

**TAKE A LOOK**

**B. Identify** Fill in the empty boxes in the table.

# Measuring Motion Section 1 Interactive Textbook

## Answer Key

**ML Yell**



## **Measuring Motion Section 1 Interactive Textbook Answer Key:**

This book delves into Measuring Motion Section 1 Interactive Textbook Answer Key. Measuring Motion Section 1 Interactive Textbook Answer Key is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Measuring Motion Section 1 Interactive Textbook Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Measuring Motion Section 1 Interactive Textbook Answer Key
    - Chapter 2: Essential Elements of Measuring Motion Section 1 Interactive Textbook Answer Key
    - Chapter 3: Measuring Motion Section 1 Interactive Textbook Answer Key in Everyday Life
    - Chapter 4: Measuring Motion Section 1 Interactive Textbook Answer Key in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Measuring Motion Section 1 Interactive Textbook Answer Key. This chapter will explore what Measuring Motion Section 1 Interactive Textbook Answer Key is, why Measuring Motion Section 1 Interactive Textbook Answer Key is vital, and how to effectively learn about Measuring Motion Section 1 Interactive Textbook Answer Key.
  3. In chapter 2, this book will delve into the foundational concepts of Measuring Motion Section 1 Interactive Textbook Answer Key. The second chapter will elucidate the essential principles that must be understood to grasp Measuring Motion Section 1 Interactive Textbook Answer Key in its entirety.
  4. In chapter 3, this book will examine the practical applications of Measuring Motion Section 1 Interactive Textbook Answer Key in daily life. The third chapter will showcase real-world examples of how Measuring Motion Section 1 Interactive Textbook Answer Key can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Measuring Motion Section 1 Interactive Textbook Answer Key in specific contexts. This chapter will explore how Measuring Motion Section 1 Interactive Textbook Answer Key is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Measuring Motion Section 1 Interactive Textbook Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.
- This 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 Measuring Motion Section 1 Interactive Textbook Answer Key.

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