

# Speed, Velocity, and Acceleration (Worksheet)

## Speed, Velocity, and Acceleration Worksheet

Q1. Fill in the blanks with suitable words.

- Q1. \_\_\_\_\_ is the distance travelled in a given amount of time.  
 Q2. \_\_\_\_\_ is the displacement travelled during a time interval in a given direction.  
 Q3. \_\_\_\_\_ is a \_\_\_\_\_ quantity, as it only has magnitude.  
 Q4. Velocity is a \_\_\_\_\_ quantity, as it has both magnitude and direction.

Q5. Write the correct formula for speed and velocity using the following letters:

- Time taken (t)  
 Displacement (d)  
 Distance (s)  
 Initial speed (u)  
 Final speed (v)

Speed =	<input type="text"/>	Velocity =	<input type="text"/>
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Q6. Write True (T) if the statement is true, and F (or False) if the statement is false.

- The units for both speed and velocity are meters per second only.  
 Speed and velocity do not mean the same thing.  
 If the object moves with a high speed then its acceleration is also high.  
 If the object moves with a low velocity then the acceleration is also low.  
 An object is moving with a constant velocity, then it has zero acceleration.

Q7. A student travels from home to school and then from school to home.



- Q7.1. What distance did the student travel?  
 1000 m     2000 m     3000 m  
 Q7.2. What is the displacement of the student?  
 1000 m, East     2000 m, East     3000 m, East  
 Q7.3. If the student travels for 200 minutes, what is the speed of the student?  
 5 m/s     10 m/s     15 m/s  
 Q7.4. If the student travels for 200 minutes, what is the velocity of the student?  
 5 m/s, East     10 m/s, East     15 m/s, East

Q8. What is the speed of an object that travels 100 meters in 5 seconds?

- 20 m/s     50 m/s  
 20 m/s     2000 m/s

Q9. A student walked from home to school as shown in the map.



- Q9.1. What other distance did the student travel?  
 1000 m     2000 m     3000 m  
 Q9.2. What is the displacement of the student?  
 1000 m to the South-East     1000 m to the South-East  
 1000 m to the North-East     1000 m to the North-East  
 Q9.3. If the student walks from home to school in 200 seconds, what is the speed of the student?  
 5 m/s     10 m/s     15 m/s     20 m/s  
 Q9.4. How many seconds will it take for a car to travel 100 meters at a speed of 50 m/s?  
 20 seconds     2000 seconds  
 40 seconds     4000 seconds  
 Q9.5. How far would you travel moving at 1 m/s for 100 seconds?  
 1 meter     100 meters  
 100 meters     10,000 meters

Q10. The diagram shows the displacement-time graph for an object moving in a straight line.



- Q10.1. What is the velocity of the object?  
 1 m/s     10 m/s  
 10 m/s     1000 m/s

Q11. Which of the following quantities represents a velocity?

- 10 m     10 m/s  
 10 m/s<sup>2</sup>     10 m to the North

Q12. Acceleration is a measure of the change in velocity over \_\_\_\_\_.

- Distance     Displacement  
 Time

Q13.



What is the acceleration of the cyclist?

- 1 m/s<sup>2</sup>     2 m/s<sup>2</sup>  
 3 m/s<sup>2</sup>     4 m/s<sup>2</sup>

Q14. A car starts accelerating from 0 m/s to 20 m/s in 5 seconds. What is its acceleration?

- 4 m/s<sup>2</sup>     20 m/s<sup>2</sup>  
 4 m/s<sup>2</sup>     20 m/s<sup>2</sup>

Q15. The diagram below shows the speed-time graph for an object.



Which of the following regions has the most acceleration?

- the region from 0 to 2     the region from 4 to 6  
 the region from 2 to 4     the region from 6 to 10

Q16. An object's velocity changes from 10 m/s to 20 m/s in 5 seconds.

What is the acceleration of the car?

- 2 m/s<sup>2</sup>     10 m/s<sup>2</sup>  
 4 m/s<sup>2</sup>     20 m/s<sup>2</sup>

# Acceleration And Average Speed Worksheet Answers

**JA Banks**



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## **Table of Contents Acceleration And Average Speed Worksheet Answers**

1. Understanding the eBook Acceleration And Average Speed Worksheet Answers
  - The Rise of Digital Reading Acceleration And Average Speed Worksheet Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Acceleration And Average Speed Worksheet Answers
  - 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 Acceleration And Average Speed Worksheet Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Acceleration And Average Speed Worksheet Answers
  - Personalized Recommendations
  - Acceleration And Average Speed Worksheet Answers User Reviews and Ratings
  - Acceleration And Average Speed Worksheet Answers and Bestseller Lists
5. Accessing Acceleration And Average Speed Worksheet Answers Free and Paid eBooks
  - Acceleration And Average Speed Worksheet Answers Public Domain eBooks
  - Acceleration And Average Speed Worksheet Answers eBook Subscription Services
  - Acceleration And Average Speed Worksheet Answers Budget-Friendly Options

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