

Forces and Motion: Speed, Velocity, and Acceleration with ANSWER KEY

EQUATIONS:

Speed:

Velocity:

Acceleration:

Force:

Sample Problems:

A girl travels 20 miles on her bicycle. The trip takes 2 hours. Express her speed in miles/hr.

1. First, we identify the variables in our problem:
  - distance (d) = 20 miles
  - time (t) = 2 hours
2. We place the variables in their correct position in the speed formula
  - $S = d/t$
  - $S = 20 \text{ mi}/2 \text{ hour}$
3. Perform the calculation and express the resulting speed value with the appropriate unit:
  - $S = 10 \text{ mi/hr}$

A car starts from a stoplight and is traveling with a velocity of 10 m/sec east in 20 seconds. What is the acceleration of the car?

1. First we identify the information that we are given in the problem:
  - $v_f = 10 \text{ m/sec}$
  - $v_o = 0 \text{ m/sec}$
  - time = 20 seconds
2. Then we insert the given information into the acceleration formula:
  - $a = (v_f - v_o)/t$
  - $a = (10 \text{ m/sec} - 0 \text{ m/sec})/20 \text{ sec}$
3. Solving the problem gives an acceleration value of  $0.5 \text{ m/sec}^2$ .

Now try on your own:

1. What is the speed of a rocket that travels 9000 meters in 12.12 seconds? **742.57 m/s**
2. What is the speed of a jet plane that travels 528 meters in 4 seconds? **132 m/s**
3. How long will your trip take (in hours) if you travel 350 km at an average speed of 80 km/hr? **4.38 h**
4. How far (in meters) will you travel in 3 minutes running at a rate of 6 m/s? **1,080 m**
5. A trip to Cape Canaveral, Florida takes 10 hours. The distance is 816 km. Calculate the average speed. **81.6 km/h**
6. How many seconds will it take for a satellite to travel 450 km at a rate of 120 m/s? **3,750 s**
7. What is the speed of a walking person in m/s if the person travels 1000 m in 20 minutes? **0.80 m/s**
8. A ball rolls down a ramp for 15 seconds. If the initial velocity of the ball was 0.8 m/sec and the final velocity was 7 m/sec, what was the acceleration of the ball? **0.413 m/s<sup>2</sup>**
9. A meteoroid changed velocity from 1.0 km/s to 1.8 km/s in 0.03 seconds. What is the acceleration of

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Chapter 16 Simple Kinetic Theory of Matter Questions Chapter 17 Sound Questions Chapter 18 Speed Velocity and Acceleration Questions Chapter 19 Temperature Questions Chapter 20 Thermal Energy Questions Chapter 21 Thermal Properties of Matter Questions Chapter 22 Transfer of Thermal Energy Questions Chapter 23 Turning Effects of Forces Questions Chapter 24 Waves Physics Questions The Electromagnetic Waves Quiz Questions PDF e Book Chapter 1 interview questions and answers on Electromagnetic waves The Energy Work and Power Quiz Questions PDF e Book Chapter 2 interview questions and answers on Work power energy efficiency and units The Forces Quiz Questions PDF e Book Chapter 3 interview questions and answers on Introduction to forces balanced forces and unbalanced forces acceleration of freefall acceleration effects of forces on motion forces and effects motion scalar and vector The General Wave Properties Quiz Questions PDF e Book Chapter 4 interview questions and answers on Introduction to waves properties of wave motion transverse and longitudinal waves wave production and ripple tank The Heat Capacity Quiz Questions PDF e Book Chapter 5 interview questions and answers on Heat capacity and specific heat capacity The Kinematics Quiz Questions PDF e Book Chapter 6 interview questions and answers on Acceleration free fall acceleration distance time speed and velocity The Kinetic Theory of Particles Quiz Questions PDF e Book Chapter 7 interview questions and answers on Kinetic theory pressure in gases and states of matter The Light Quiz Questions PDF e Book Chapter 8 interview questions and answers on Introduction to light reflection refraction converging lens and total internal reflection The Mass Weight and Density Quiz Questions PDF e Book Chapter 9 interview questions and answers on Mass weight density inertia and measurement of density The Measurement of Physical Quantities Quiz Questions PDF e Book Chapter 10 interview questions and answers on Physical quantities SI units measurement of density and time precision and range The Measurement of Temperature Quiz Questions PDF e Book Chapter 11 interview questions and answers on Measuring temperature scales of temperature and types of thermometers The Measurements Quiz Questions PDF e Book Chapter 12 interview questions and answers on Measuring time meter rule and measuring tape The Melting and Boiling Quiz Questions PDF e Book Chapter 13 interview questions and answers on Boiling point boiling and condensation evaporation latent heat melting and solidification The Pressure Quiz Questions PDF e Book Chapter 14 interview questions and answers on Introduction to pressure atmospheric pressure weather hydraulic systems measuring atmospheric pressure pressure in liquids and pressure of gases The Properties and Mechanics of Matter Quiz Questions PDF e Book Chapter 15 interview questions and answers on Solids friction and viscosity The Simple Kinetic Theory of Matter Quiz Questions PDF e Book Chapter 16 interview questions and answers on Evidence of molecular motion kinetic molecular model of matter pressure in gases and states of matter The Sound Quiz Questions PDF e Book Chapter 17 interview questions and answers on Introduction to sound and transmission of sound The Speed Velocity and Acceleration Quiz Questions PDF e Book Chapter 18 interview questions and answers on Speed velocity acceleration displacement time graph and velocity time graph The Temperature Quiz Questions PDF e Book

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### **Table of Contents Answer Key Speed Acceleration Ch 3**

1. Understanding the eBook Answer Key Speed Acceleration Ch 3
  - The Rise of Digital Reading Answer Key Speed Acceleration Ch 3
  - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Speed Acceleration Ch 3
  - 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 Answer Key Speed Acceleration Ch 3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Speed Acceleration Ch 3
  - Personalized Recommendations

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  - Answer Key Speed Acceleration Ch 3 Public Domain eBooks
  - Answer Key Speed Acceleration Ch 3 eBook Subscription Services
  - Answer Key Speed Acceleration Ch 3 Budget-Friendly Options
- 6. Navigating Answer Key Speed Acceleration Ch 3 eBook Formats
  - ePub, PDF, MOBI, and More
  - Answer Key Speed Acceleration Ch 3 Compatibility with Devices
  - Answer Key Speed Acceleration Ch 3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answer Key Speed Acceleration Ch 3
  - Highlighting and Note-Taking Answer Key Speed Acceleration Ch 3
  - Interactive Elements Answer Key Speed Acceleration Ch 3
- 8. Staying Engaged with Answer Key Speed Acceleration Ch 3
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answer Key Speed Acceleration Ch 3
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  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Answer Key Speed Acceleration Ch 3
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  - Fact-Checking eBook Content of Answer Key Speed Acceleration Ch 3

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  - Utilizing eBooks for Skill Development
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