

Name _____

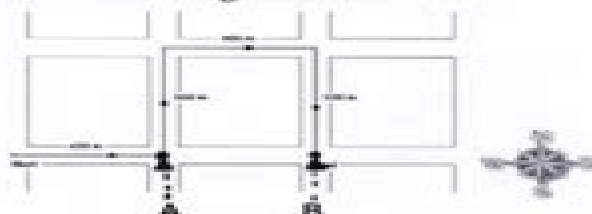
KEY

Period _____

Date _____

Distance, Displacement, Speed, Velocity Practice Test

For questions 1 and 2: A school bus takes the route shown on the diagram below.



1) What is the displacement of the school bus from A to B?

$$\Delta x = 400\text{m East}$$

2) What is the distance the school bus traveled from A to B?

$$d = 1,400\text{m}$$

3) An object traveled 240 m in 6 seconds. Find the average speed of this object.

$$s = \frac{d}{t} = \frac{240\text{m}}{6\text{s}} = 40\text{m/s}$$

4) What is the distance traveled by an object that moves with an average speed of 3 meters per second for 3 seconds?

$$s = \frac{d}{t} \rightarrow d = s \cdot t = (3\text{m/s})(3\text{s})$$

$$d = 9\text{m}$$

5) A person is driving with an average speed of 60 miles/hr. How long will it take this person to get to her destination if it is 30 miles from her origin?

$$s = \frac{d}{t} \rightarrow t = \frac{d}{s} = \frac{30\text{miles}}{60\text{miles/hr}} = 0.5\text{hr}$$

6) What is the average speed of an object that travels 12 m north in 6 seconds and then travels back 6 m south in 3 seconds?

$$\text{Total distance} = 18\text{m}$$

$$\text{Total time} = 9\text{s}$$

$$s = \frac{d}{t} = \frac{18\text{m}}{9\text{s}} = 2\text{m/s}$$

After 4 laps, the runner ended up in the same spot.

$$\Delta x = 0$$

7) A runner completes 4 track laps (the track is 400 meters in length with an oval shape and the start and finish line are in the same location). The magnitude of the runner's total distance traveled by the runner is _____ the total displacement from the start/finish line.

$$d > \Delta x$$

a) smaller than b) larger than c) the same as

For questions 8-10. The following motion diagram displays the position of an object (dot) at time intervals of 1 second.



8) What type of motion is displayed on the previous diagram?

a) constant speed
c) increasing speed

b) decreasing speed
d) at rest

9) How long did it take this object to move from position A to position B?

$$4\text{ seconds}$$

10) What is the time interval (Δt) from A to B? Recall that $\Delta t = t_f - t_i$

Let's say A is on 0s and B is on 4s

$$\Delta t = 4\text{s} - 0\text{s}$$

$$\Delta t = 4\text{s}$$

For questions 11-13. The following motion diagram displays the position of an object (dot) at time intervals of 1 second.



11) What type of motion is displayed on the previous diagram?

a) constant speed
c) increasing speed

b) decreasing speed
d) at rest

12) How long did it take this object to move from position A to position B?

$$2\text{ seconds}$$

13) What is the time interval (Δt) from A to B? Recall that $\Delta t = t_f - t_i$

Let's say A is on 2s and B is on 4s

$$\Delta t = 4\text{s} - 2\text{s}$$

$$\Delta t = 2\text{s}$$

Its About Time Active Physics Practice Test

David Baud



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Table of Contents Its About Time Active Physics Practice Test

1. Understanding the eBook Its About Time Active Physics Practice Test
 - The Rise of Digital Reading Its About Time Active Physics Practice Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Its About Time Active Physics Practice Test
 - 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 Its About Time Active Physics Practice Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Its About Time Active Physics Practice Test
 - Personalized Recommendations
 - Its About Time Active Physics Practice Test User Reviews and Ratings
 - Its About Time Active Physics Practice Test and Bestseller Lists

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