

# Displacement and Velocity Worksheet

Show all work as you solve the following problems.

1. Calculate the total displacement of a mouse walking along a ruler, if it begins at the location  $x = 5\text{cm}$ , and then does the following:
  - It walks to  $x = 12\text{cm}$
  - It then walks a displacement of  $-8\text{cm}$
  - Lastly, it walks to the location  $x = 7\text{cm}$

$D=2\text{cm}$

2. Find the average velocity (in m/s) of a bicyclist that starts 150 meters north of town and is 1200 meters north of town after 30.0 minutes.

$35\text{ m/min North}$

3. Explain what is wrong with the following statement: A man walked at an average velocity of  $5.2\text{m/s}$ .

$\text{It says velocity but it doesn't have a direction and the action is not present.}$

4. A school bus takes 0.53 hours to reach the school from your house. If the average speed of the bus is  $19\text{km/h}$ , what is the displacement of the bus during the trip?

$\text{The displacement of the bus during the trip is } 9.5\text{km from the house if it traveled in a straight line}$

5. A girl participating in cross-country spends the afternoon practicing, and ends the practice completely tired from her hard work, despite the fact that her average velocity during the practice was  $0.0\text{m/s}$ . Explain how this situation is possible.

$\text{This situation is possible because she started and ended practice at the same sport.}$

6. A hiker is at the bottom of a canyon facing the canyon wall closest to her. She is 280.5 meters from the wall and the sound of her voice travels at  $340\text{ m/s}$  at that location. How long after she shouts will she hear her echo? (Be careful to consider why echoes happen.)

# Displacement Velocity Worksheet With Answers

**S Ben Porath**



**Displacement Velocity Worksheet With Answers:**

## Decoding **Displacement Velocity Worksheet With Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Displacement Velocity Worksheet With Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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