

Speed, Velocity, and Acceleration (Worksheet)

Speed, Velocity, and Acceleration Worksheet

Q1. Fill in the blanks with suitable words.

(a) _____ is the distance travelled in a given amount of time.

(b) _____ is the displacement travelled during a time interval in a given direction.

(c) _____ is a _____ quantity, as it only has magnitude.

(d) Velocity is a _____ quantity, as it has both magnitude and direction.

Q2. Write the correct formula for speed and velocity using the following letters:

- Distance (d)
- Displacement (Δx)
- Time (t)
- Time taken (t₁)

Speed =	<input type="text"/>	Velocity =	<input type="text"/>
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Q3. 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 have the same unit.
- 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.

Q4. A student travels from home to school and then from school to home.



- Q5.1. What distance did the student travel?
 (a) 1000 m (b) 2000 m (c) 3000 m (d) 4000 m
- Q5.2. What is the displacement of the student?
 (a) 2000 m, East (b) 1000 m, East (c) 1000 m, West (d) 2000 m, West
- Q5.3. If the student travels for 200 minutes, what is the speed of the student?
 (a) 5 m/s (b) 10 m/s (c) 15 m/s (d) 20 m/s
- Q5.4. If the student travels for 200 minutes, what is the velocity of the student?
 (a) 5 m/s (b) 10 m/s, East (c) 15 m/s, West (d) 20 m/s, East

Q6. What is the speed of an object that travels 10 meters in 5 seconds?

- (a) 2 m/s (b) 5 m/s
- (c) 2 m/s (d) 20 m/s

Q7. A student walked from home to school as shown in the map.



- Q7.1. What other distance did the student travel?
 (a) 1000 m (b) 2000 m (c) 3000 m (d) 4000 m
- Q7.2. What is the displacement of the student?
 (a) 1000 m to the South-East (b) 1000 m to the South-East
 (c) 1000 m to the North-East (d) 1000 m to the North-East
- Q7.3. If the student walks from home to school in 200 minutes, what is the speed of the student?
 (a) 5 m/s (b) 10 m/s (c) 15 m/s (d) 20 m/s

Q8. How many seconds will it take for a car to reach 100 meters at a speed of 50 m/s?

- (a) 20 seconds (b) 2000 meters
- (c) 40 seconds (d) 4000 meters

Q9. How far would you travel moving at 1 m/s for 10 seconds?

- (a) 1 meter (b) 10 meters
- (c) 100 meters (d) 1000 meters

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



- What is the velocity of the object?
 (a) 10 m/s (b) 100 m/s
 (c) 1000 m/s (d) 10000 m/s

Q11. Which of the following quantities represents a velocity?

- (a) 10 m (b) 10 m/s
- (c) 10 m/s² (d) 10 m to the North

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

- (a) Distance (b) Displacement
- (c) Time (d) Mass

Q13.



What is the acceleration of the cyclist?

- (a) 1 m/s² (b) 2 m/s²
- (c) 3 m/s² (d) 4 m/s²

Q14. A car starts accelerating from 0 m/s to 100 m/s in 10 seconds. What is its acceleration?

- (a) 10 m/s² (b) 100 m/s²
- (c) 1000 m/s² (d) 10000 m/s²

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



Which of the following regions has the most acceleration?

- (a) The region from 0 to 2
- (b) The region from 2 to 4
- (c) The region from 4 to 6
- (d) The region from 6 to 10

Q16. An object's velocity changes from 10 m/s to 30 m/s in 2 seconds.

What is the acceleration of the car?

- (a) 10 m/s² (b) 100 m/s²
- (c) 1000 m/s² (d) 10000 m/s²

Acceleration And Average Speed Worksheet Answers

Shasha Hu



Acceleration And Average Speed Worksheet Answers:

Acceleration And Average Speed Worksheet Answers Book Review: Unveiling the Power of Words

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