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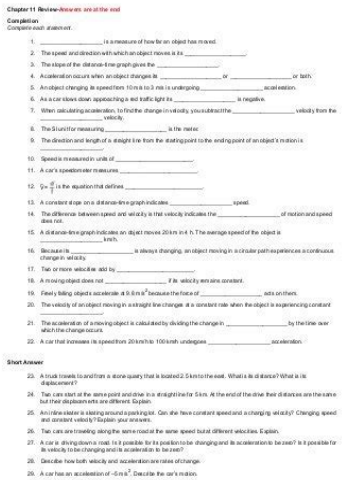

Chapter 11 Review-Answers are at the end

Completion

Complete each statement.

1. _____ is a measure of how far an object has moved.
2. The speed and direction with which an object moves is its _____.
3. The slope of the distance-time graph gives the _____.
4. Acceleration occurs when an object changes its _____ or _____, or both.
5. An object changing its speed from 10 m/s to 3 m/s is undergoing _____ acceleration.
6. As a car slows down approaching a red traffic light its _____ is negative.
7. When calculating acceleration, to find the change in velocity, you subtract the _____ velocity from the _____ velocity.
8. The SI unit for measuring _____ is the meter.
9. The direction and length of a straight line from the starting point to the ending point of an object's motion is _____.
10. Speed is measured in units of _____.
11. A car's speedometer measures _____.
12. $\bar{v} = \frac{d}{t}$ is the equation that defines _____.
13. A constant slope on a distance-time graph indicates _____ speed.
14. The difference between speed and velocity is that velocity indicates the _____ of motion and speed does not.
15. A distance-time graph indicates an object moves 20 km in 4 h. The average speed of the object is _____ km/h.
16. Because it is _____, a body always changing, an object moving in a circular path experiences a continuous change in velocity.
17. Two or more velocities add by _____.
18. A moving object does not _____ if its velocity remains constant.
19. Freely falling objects accelerate at 9.8 m/s^2 because the force of _____ acts on them.
20. The velocity of an object moving in a straight line changes at a constant rate when the object is experiencing constant _____.
21. The acceleration of a moving object is calculated by dividing the change in _____ by the time over which the change occurs.
22. A car that increases its speed from 20 km/h to 100 km/h undergoes _____ acceleration.

Short Answer

23. A truck travels to and from a stone quarry that is located 2.5 km to the east. What is its distance? What is its displacement?
24. Two cars start at the same point and drive in a straight line for 5 km. At the end of the drive their distances are the same but their displacements are different. Explain.
25. Am I time skater is skating around a parking lot. Can she have constant speed and a changing velocity? Changing speed and constant velocity? Explain your answers.
26. Two cars are traveling along the same road at the same speed but at different velocities. Explain.
27. A car is driving down a road. Is it possible for its position to be changing and its acceleration to be zero? Is it possible for its velocity to be changing and its acceleration to be zero?
28. Describe how both velocity and acceleration are rates of change.
29. A car has an acceleration of –5 m/s^2. Describe the car's motion.

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