# 3 Linear Motion

#### Answers and Solutions for Chapter 3

#### Reading Check Questions

- Relative to the chair your speed is zero. Relative to the Sun it's 30 km/s.
- 2. The two necessary units are distance traveled and time of travel.
- A speedometer registers instantaneous speed.
- 4. Average speed is 30 km/min.
- The horse travels 25 km/h x 0.5 h = 12.5 km.
- Speed is a scalar and velocity is speed and direction, a vector.
- 7. Yes. A car moving at constant velocity moves at constant speed.
- The car maintains a constant speed but not a constant velocity because it changes direction as it rounds the comer.
- The acceleration is 10 km/h/s.
- Acceleration is zero, because velocity doesn't change.
- You are aware of changes in your speed, but not steady motion. Therefore you are aware of acceleration, but not constant velocity.
- 12. When motion is in one direction along a straight line, either may be used.
- Galileo found that the ball gained the same amount of speed each second, which says the acceleration is constant.
- 14. Galileo discovered that the greater the angle of incline, the greater the acceleration. When the incline is
- vertical, the acceleration is that of free fall.
- 15. A freely-falling object is one on which the only force acting is the force of gravity. This means falling with no air resistance.
- 16. Gain in speed is 10 m/s each second.
- 17. The speed acquired in 5 seconds is 50 m/s; in 6 seconds, 60 m/s.
- 18. The unit 'seconds' occurs in velocity, and again in the time velocity is divided

# **Chapter Linear Motion Answers**

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