Overview Answers:

1. pushes and pulls

2. unbalanced

3. Newton’s laws

4. inertia

5. acceleration

6. pairs

7. gravity

8. mass

Sections 1 and 2

1. a

2. a

3. b

4. a

5. b

6. net unbalanced

7. inertia

8. acceleration

9. downward

10. opposite

11. reaction

Section 3

1. laws of motion

2. accelerate

3. 9.8 m/s2

4. air resistance

5. gravity

6. equals

7. velocity

8. terminal velocity

9. satellites

10. fall

11. weightlessness

12. freefall

13. straight line

14. continues

15. decelerate

16. conservation of momentum

17. momentum

Key Terms

1. gravity

2. true

3. centripetal

4. true

5. weight

6. True

7. Newton’s third law of motion

8. true

9. centripetal force

10. inertia

11. true

12. true

Chapter Review (page 31)

Part A. Vocabulary Review

1. Newton’s third law of motion

2. terminal velocity

3. net force

4. centripetal acceleration

5. centripetal force

6. air resistance

7. Newton’s second law of motion

8. momentum

9. conservation of momentum

10. Gravity

11. weight

12. distance

13. newtons

14. static friction

15. sliding friction

1. a

b

c

2. a (gravity)

b

Inertia

=resultant

gravity

3. They will strike the floor at the same time

because gravity pulls both balls toward the floor

with the same force.

4. P m v

P 2 kg 20 m/s

P 40 kg • m/s

5. Air resistance on the flat sheet of paper is

greater because of its shape, therefore it would

fall more slowly than the wad of paper.

6. when it is in free fall or when it appears to be free from the effects of gravity

7. static friction: between two forces that are not moving; sliding friction: force opposing the motion of two surfaces sliding across each other; rolling friction: between a rolling object and the surface it’s rolling on