Name _____ Date _____ Class _____

SECTION 2-2 REVIEW AND REINFORCE

Force, Mass, and Acceleration

◆ Understanding Main Ideas

Answer the following question in the space provided.

1. Newton's second law of motion describes the relationship of force, mass, and acceleration. Write the equation.

Force = Mass x Acceleration

Write the letter of the correct answer on the line at the left.

C **2.** If you increase the net force on an object, its acceleration
- **a.** decreases.
- **b.** stays the same.
- **c.** also increases.
- **d.** stops.

A **3.** If you increase the mass on an object, its acceleration
- **a.** decreases.
- **b.** stays the same.
- **c.** also increases.
- **d.** stops.

D **4.** How much net force is needed to accelerate a 3 kg skateboard at 5 m/s^2?
- **a.** 8 N
- **b.** 0.6 N
- **c.** 1.6 N
- **d.** 15 N

C **5.** How much net force is needed to accelerate a 25 kg bowling ball at 2 m/s^2?
- **a.** 5 N
- **b.** 12.5 N
- **c.** 50 N
- **d.** 100 N

A **6.** If a 2 kg bird is pushed by the wind with a force of 2 N, how fast does the bird accelerate?
- **a.** 1 m/s^2
- **b.** 2 m/s^2
- **c.** 4 m/s^2
- **d.** 1 m

◆ Building Vocabulary Skills

Answer the following question in the space provided.

7. What is the newton used for measuring?

Force

Fill in the blank with the correct units.

8. 1 N = 1 kg × 1 m/s²

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