Jame	Class	Date		
Skills Worksheet				
Section Review				
Newton's Laws				
1. In your own word	ls, write a definition for the te	erm inertia.		
JNDERSTANDING	KEY IDEAS			
is pushed a. decreas b. increas	by a force? ing the mass of the object ing the mass of the object ing the force pushing the obje	e acceleration of an object that		
3. Give three examp	elles of force pairs that occur v	when you do your homework.		
4. What does Newto in motion?	on's first law of motion say at	pout objects at rest and objects		
5. Use Newton's sec and acceleration.	cond law to describe the relat	ionship between force, mass,		

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Section Review continued		
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## **MATH SKILLS**

6. What force is necessary to accelerate a 70 kg object at rate of 4.2 m/s<sup>2</sup>? Show your work below.

## **CRITICAL THINKING**

7. **Applying Concepts** When a truck pulls a trailer, the trailer and truck accelerate forward even though the action and reaction forces are the same size but are in opposite directions. Why don't these forces balance each other?

8. **Making Inferences** Use Newton's first law of motion to explain why airbags in cars are important during head-on collisions.

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## **INTERPRETING GRAPHICS**

9. Imagine you accidentally bumped your hand against a table, as shown in the image below. Your hand hurts after it happens. Use Newton's third law of motion to explain what caused your hand to hurt.

