

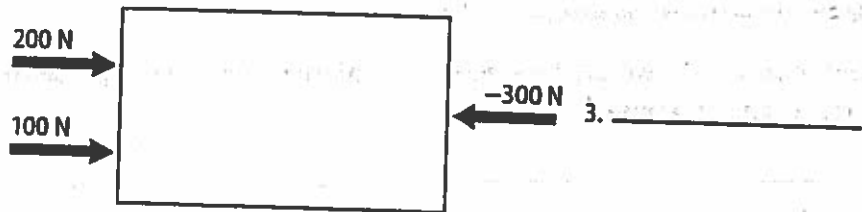
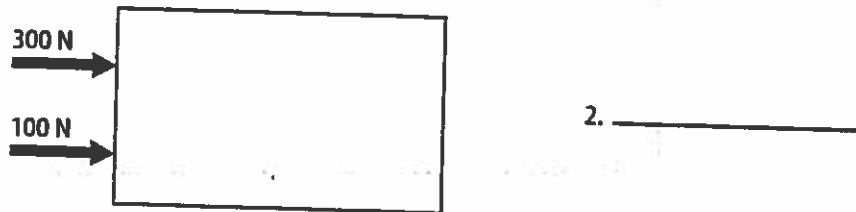
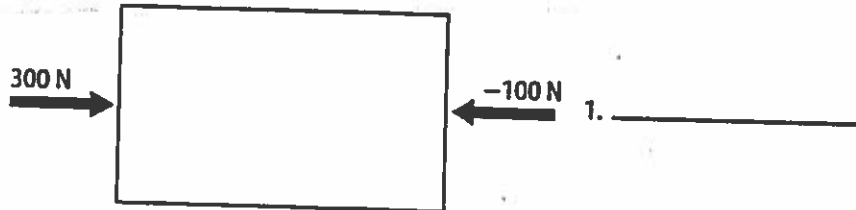
Key Concept Builder

LESSON 2

Newton's First Law

Key Concept How is motion related to balanced and unbalanced forces?

Directions: The diagrams below represent sliding forces applied to a large box. Write the net force applied to each box on the line next to each diagram.



Directions: On each line, write the term that correctly completes the sentence.

4. Because forces have directions, you must specify a(n) _____ when you combine forces.
5. A force exerted in that direction is _____, and a force exerted in the opposite direction is _____.
6. The combination of forces acting on an object is the _____.

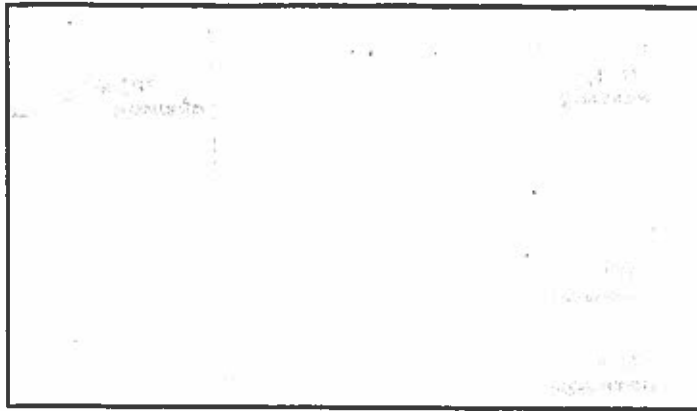
Content Practice B

LESSON 2

Newton's First Law

Directions: In the box below, draw arrows showing a positive force of 400 N and a negative force of 200 N. Use "to the right" as the reference direction. Then write the net force on the line provided.

1. net force: _____



Directions: Answer each question on the lines provided.

2. How much force would be needed to balance the force represented by the two arrows in the diagram above?

3. What are balanced forces? What are unbalanced forces?

4. What is Newton's first law of motion?

5. What is inertia?

