

Content Practice A

LESSON 2

Newton's First Law

Directions: On each line, write the term from the word bank that correctly completes each sentence. Some terms may be used more than once.

- | | | | | |
|------------------|----------------------------|------------------|-------------------|-------------------|
| balanced | constant | direction | inertia | motionless |
| net force | reference direction | straight | unbalanced | velocity |

- The combination of all forces acting on an object is the _____.
- Because forces have a(n) _____, a(n) _____ must be specified when forces are combined.
- Forces that combine to produce a(n) _____ of zero are _____; for a nonzero quantity, they are _____.
- Newton's first law of motion states that if zero force is acting on an object at rest, the object will continue to be _____.
- The same law states that a moving object subjected to zero force will continue in a(n) _____ line at a(n) _____ speed.
- A(n) _____ set of forces cause a moving object to change its _____.
- The tendency of an object to resist a change in its motion is called _____.

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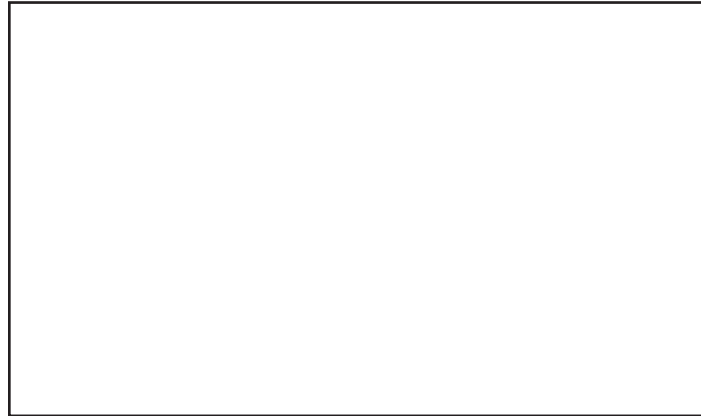
Content Practice B

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?

