

**Content Practice B**

**LESSON 3**

**Newton's Laws of Motion**

**Directions:** On each line, write the term from the word bank that correctly describes each situation. Some terms will be used more than once.

**Newton's first law**

**Newton's second law**

**Newton's third law**

1. An object at rest will stay at rest. \_\_\_\_\_
2. Each force in a force pair acts on a different object. \_\_\_\_\_
3. When forces are balanced, the object is at rest. \_\_\_\_\_
4. The acceleration of an object is equal to the net force exerted on the object divided by the object's mass. \_\_\_\_\_
5. When the net force is zero, a moving object will continue moving in a straight line with a constant speed. \_\_\_\_\_
6. For every action force, there is an equal but opposite reaction force.  
\_\_\_\_\_
7. When force is doubled and mass stays the same, acceleration also doubles.  
\_\_\_\_\_
8. Unbalanced forces cause objects to accelerate. \_\_\_\_\_
9. The ground pushes back with force equal to gravity as a person walks down a path.  
\_\_\_\_\_
10. Balanced forces act on an object only when it is at rest or moving at a constant velocity. \_\_\_\_\_
11. The direction of acceleration is the same as the direction of the net force.  
\_\_\_\_\_
12. Net forces can cause positive acceleration. \_\_\_\_\_
13. When objects exert forces on each other, one is the action force and the other is the reaction force. \_\_\_\_\_
14. When mass increases but force remains the same, acceleration decreases.  
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