

Choose whether or not the statement is true or false. If you choose *False*, write the term that would make the statement true in the blank.

- \_\_\_\_\_ Objects fall toward Earth at a rate of  $9.8 \text{ m/s}^2$  because of *centripetal force*.
- \_\_\_\_\_  $F = ma$  represents Newton's *second* law of motion.
- \_\_\_\_\_ The force of gravity acting upon an object is the object's *mass*.
- \_\_\_\_\_ *Friction* is the force that opposes motion between surfaces that touch each other.
- \_\_\_\_\_ To every action force there is an equal and opposite reaction force is *the law of conservation of momentum*.
- \_\_\_\_\_ According to *the law of conservation of momentum*, momentum lost equals momentum gained.
- \_\_\_\_\_ Anything that is thrown or shot through the air is *weightless*.
- \_\_\_\_\_ Microwelds are the source of *momentum* between two surfaces pressed together.
- \_\_\_\_\_ Air resistance acts in the *opposite* direction to that of an object in motion.
- \_\_\_\_\_ Terminal velocity is the *highest* velocity that a falling object will reach.