|      | 21.   | The force that one surface exerts on another when the two rub against each other is called                   |
|------|-------|--|
|      |       | a. friction.   |
|      |       | b. acceleration.   |
|      |       | c. gravity.  |
|      |       | d. inertia.  |
|      | 22    | The tendency of an object to resist any change in its motion is known as                                     |
|      | 22.   | a. balance.  |
|      |       | b. mass.   |
|      |       | c. force.  |
|      |       | d. inertia.  |
|      | 23.   | According to Newton's third law of motion, when a hammer strikes and exerts force on a nail, the nail        |
|      |       | a. moves at a constant speed.  |
|      |       | b. creates a friction with the hammer.   |
|      |       | c. exerts an equal force back on the hammer.   |
|      |       | d. disappears into the wood.   |
|      | 24.   | The greater the mass of an object,   |
|      |       | a. the easier the object starts moving.  |
|      |       | b. the more balanced it is.  |
|      |       | c. the more space it takes up.   |
|      |       | d. the greater its inertia.  |
|      | 25.   | The law of universal gravitation states that any two objects in the universe, without                        |
|      |       | exception,   |
|      |       | a. repel each other.   |
|      |       | b. attract each other.   |
|      |       | c. create friction.  |
|      |       | d. combine to provide a balanced force.  |
|      | 26.   | A place or object used for comparison to determine if something is in motion is called a. a reference point. |
|      |       | b. velocity.   |
|      |       | c. a constant.   |
|      |       | d. a position.   |
|      | 27.   | When you know both the speed and the direction of an object's motion, you know the                           |
|      |       | a. velocity of the object.   |
|      |       | b. acceleration of the object.   |
|      |       | c. average speed of the object.  |
|      | 20    | d. distance the object has traveled.   |
|      | 28.   | One way to increase acceleration is by a. increasing mass.   |
|      |       | <ul><li>a. increasing mass.</li><li>b. decreasing mass.</li></ul>  |
|      |       | c. decreasing force.   |
|      |       | d. increasing both force and mass proportionally.  |
| Comp | olete | each sentence or statement.  |
|      | 29.   | The overall force on an object after all the forces are added together is called the force.                  |
|      | 30.   | forces acting on an object produce a change in motion.   |
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