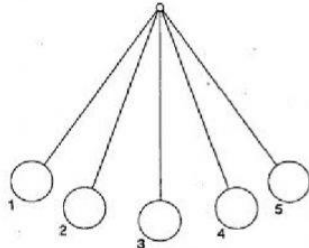
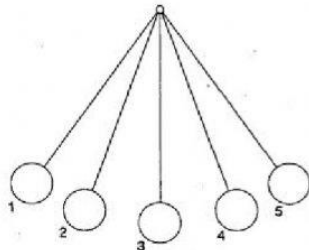




21. What is the gravitational potential energy of the rock if its weight is 15 newtons, its mass is 1.53 grams and it is 20 meters above the ground? \_\_\_\_\_ Joules



22. If the pendulum has 50 joules of potential energy at position 1, what is the kinetic energy at position 3? \_\_\_\_\_ Joules



23. The pendulum has 50 joules of potential energy at position 1. If the potential energy at position 2 is 20 Joules, what is the kinetic energy at position 2? \_\_\_\_\_ Joules

- \_\_\_\_ 24. Energy is measured in units called  
 a. joules.  
 b. horsepower.  
 c. pounds.  
 d. meters.
- \_\_\_\_ 25. Potential energy that depends on height is called  
 a. gravitational potential energy.  
 b. mechanical energy.  
 c. kinetic energy.  
 d. elastic potential energy.
- \_\_\_\_ 26. When you rub your hands together on a cold day, you use friction to convert  
 a. electrical energy into electromagnetic energy.  
 b. mechanical energy into thermal energy.  
 c. thermal energy into nuclear energy.  
 d. nuclear energy into electrical energy.
- \_\_\_\_ 27. The ability to do work is called  
 a. velocity.  
 b. energy.  
 c. friction.  
 d. conversion.
- \_\_\_\_ 28. Visible light is an example of  
 a. electromagnetic energy.  
 b. chemical energy.  
 c. electrical energy.  
 d. nuclear energy.
- \_\_\_\_ 29. The total energy of the particles in an object is called  
 a. thermal energy.  
 b. electrical energy.  
 c. mechanical energy.  
 d. chemical energy.
- \_\_\_\_ 30. Energy stored in the core of an atom is called  
 a. chemical energy.  
 b. mechanical energy.  
 c. nuclear energy.  
 d. electromagnetic energy.