



# Ch. 13 Section 2 Practice Quiz

## Section: Simple Machines

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- \_\_\_\_\_ 1. What are the two families of simple machines?  
a. wedge and compound                      c. inclined plane and lever  
b. first class and second class            d. pulley and screw
- \_\_\_\_\_ 2. Levers are divided into \_\_\_\_\_ classes based on the location of the fulcrum and of the input and output forces.  
a. two    c. four  
b. three    d. five
- \_\_\_\_\_ 3. A wedge is a modified  
a. wheel and axle.                              c. inclined plane.  
b. pulley.                                        d. lever.
- \_\_\_\_\_ 4. A ramp is a simple inclined plane that allows one to apply an input force \_\_\_\_\_ the output force.  
a. perpendicular to                            c. greater than  
b. equal to                                        d. less than
- \_\_\_\_\_ 5. Which of the following is an example of a compound machine?  
a. scissors                                        c. wheel and axle  
b. ax blade                                        d. screw
- \_\_\_\_\_ 6. What is the mechanical advantage of a single, fixed pulley?  
a. 0.5    c. 2  
b. 1     d. 4

In the space provided, write the letter of the term or phrase that best matches each description.

- \_\_\_\_\_ 7. a lever or pulley connected to a shaft  
a. block and tackle  
b. wheelbarrow  
c. wheel and axle  
d. screw
- \_\_\_\_\_ 8. an example of a second-class lever  
a. block and tackle  
b. wheelbarrow  
c. wheel and axle  
d. screw
- \_\_\_\_\_ 9. an inclined plane wrapped around a cylinder  
a. block and tackle  
b. wheelbarrow  
c. wheel and axle  
d. screw
- \_\_\_\_\_ 10. multiple pulleys put together in a single unit  
a. block and tackle  
b. wheelbarrow  
c. wheel and axle  
d. screw



