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Ob 3

Name: _____
Period: _____
Date: _____



Simple Machines Test Review

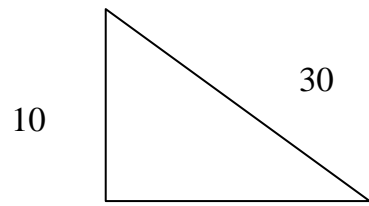
1. An instrument that makes work easier is called a _____.
2. T or F Most machines are composed of several simple machines,
3. An inclined plane that moves is called?
4. List the six simple machines.
5. What is the definition of an inclined plane?
6. What is an example of an inclined plane?
7. A zipper is an example of what kind of simple machine?
8. An inclined plane wrapped around a cylinder to form a spiral is called a _____.
9. What are the three classes of levers?
10. Define lever
11. Give an example of a lever.
12. What is a rope, belt or chain that is wrapped around a grooved wheel, usually used for lifting called?
13. Explain how a wheel and axle work.
14. What is a compound machine?

15. T or F when the threads on a screw are closer together, it lessens the distance and makes it so you have to apply more force.
16. Name a simple machine the Egyptians may have used to build the pyramids.

How did they use this machine?

17. Give an example of a simple machine found in your body.
18. Draw a picture of a lever and label the FULCRUM, INPUT FORCE, and OUTPUT FORCE
19. The thinner the end of a wedge, the (more / less) force is required to overcome resistance.
20. What is the formula for the mechanical advantage of any simple machine?
21. What is the definition of input force?
22. Which type of force is the force exerted on an object by the machine?
23. Define Mechanical Advantage..
24. What is the formula for finding the mechanical advantage of an inclined plane?
25. What is the formula for finding the mechanical advantage of a lever?
26. When raking leaves your input force is 20 and your output force is 5. What is the mechanical advantage of the rake? (WRITE DOWN THE FORMULA AND SHOW YOUR WORK!!)

27. Calculate the mechanical advantage of the inclined plane below.



28. Calculate the mechanical advantage of the inclined plane below.

