Physical Science - Chapter 14 Review Sheet

- 1. When does a force applied to an object not do any work? When there is no displacement
- 2. What is the unit of work? Joule
- If you exert a force of 10.0 N to lift a box a distance of 0.75 m, how much work do you do? 7.5 J
- If you perform 30 joules of work litting a 20-N box from the floor to a shelf, how high is the shelf? 1.5 m
- 5. The SI unit of power is the ______. Watt
- If you exert a force of 500 N to walk 4 m up a flight of stairs in 4 s, how much power do you use? 500 W
- 7. A machine is a device that can multiply . Force
- When a machine does work, it can do all of the following EXCEPT
 - a. change the direction of a force.
 - b. increase a force and change the distance a force moves.
 - increase the distance a force moves and change the direction of a force.
 - d. increase a force and increase the distance a force moves.
- If you know the input distance and output distance of a machine, which of the following can you calculate?
- If you have to apply 30 N of force on a crowbar to lift an rock that weights 330 N, what is the actual mechanical advantage of the crowbar?
- A motor with an efficiency rating of 80 percent must supply 300 J of useful work. What amount of work must be supplied to the motor?

a jar lid
d. a pencil

- 13. Which of the following is an example of a wheel and axle?
 - a doorknob
 an automobile steering wheel

- The force that is exerted on a machine is called the force. Output force.
- 17. The fulcrum is always between the effort force and the resistance force in a(an) -class lever. first
- Compare the size and direction of the input and output forces shown in the figure to the right. Same direction, output force is greater
- The ideal mechanical advantage of a third-class lever is always than 1. less
- If you grease a ramp to make a box slide more easily, what happens to the ramp's mechanical advantage? increases
- 22. If a simple machine could be frictionless, how would its IMA and AMA compare? equal
- 23. How does friction affect the calculation of the IMA of a simple machine? it doesn't
- The input force of a pulley system must move 6.0 m to lift a 3000-N engine a distance of 0.50 m. What is the IMA of the system?
- 25. A force of 12 N is applied to the handle of a screwdriver being used to pry off the lid of a paint can. As the force moves through a distance 0.3 m, the screwdriver does 32 J of work on the lid. What is the efficiency of the screwdriver? BAD QUESTION
- 26. What is the IMA of the ramp in the figure at the right? 3





Physical Science Chapter 14 Assessment Answers

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Physical Science Chapter 14 Assessment Answers:

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Environmental Science Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, 2007 The Critical Importance Of Environmental Preservation Is Apparent To Everyone The Issues Facing Us Today Be They Global Warming The Depleting Ozone Layer The Controversy Over Nuclear Power Or The Continuing Problems Of Water Pollution And Solid Waste Disposal Are Headline News Environmental Science Systems And Solutions Fourth Edition Offers The Basic Principles Necessary To Understand And Address These Multi Faceted And Often Very Complex Current Environmental Concerns The Book Provides

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