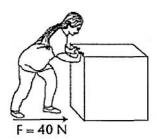
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Work and Power

Read pp. 70-75

Understanding Main Ideas

Use the illustration to answer Questions 1-3 in the spaces provided.



- The illustration shows a girl pushing on a heavy box. She pushes with a force of 40 N. How can you determine if she is doing work on the box?
- 2. The girl pushes the box 2 m. What formula should you use to calculate the amount of work done on the box?
- 3. How much work does the girl do pushing the box 2 m?

Building Vocabulary

On a separate sheet of paper, write a definition for each of these terms.

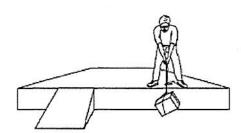
- 4. work
- 5. joule
- 6. power

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Understanding Machines Read pp. 76-83

Understanding Main Ideas

In the illustration below, the man can either pull the box upward onto the platform or pull the box up the ramp. Use the illustration to answer Questions 1–4. If the statement is true, write *true*. If the statement is false, change the underlined word or words to make the statement true.



1.	the man uses the ramp.			
2.	The ramp helps the man do work by reducing input distance.			
3.	To calculate the efficiency of the ramp, divide the output work by the input work and multiply the result by 100%.			
4.	The ideal mechanical advantage of the ramp is its mechanical advantage with friction.			
В	uilding Vocabulary			
Fi	Il in the blank to complete each statement.			
5.	A machine's is the number of times the machine multiplies the input force.			
6.	The force you exert on a machine is called the			

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8. ___ fulcrum

Inclined Planes and Levers Read pp. 84- 91

Control of the Contro				
Understanding N	lain Ideas			
Answer the following	Answer the following questions in the spaces provided.			
How does an inclin	ed plane help you do work?			
2. How is a screw rela	ated to an inclined plane?			
3. Give an example o	f each of the three classes of levers.			
	its definition by writing the letter of the correct definition in the ne beside the term in the left column.			
4 inclined plane	a. the fixed point that a lever pivots around			
5. wedge	b. a flat, sloped surface			
6 lever	c. an inclined plane wrapped around a cylinder			
7 corow	d an inclined plane or two inclined planes back-to-back that can move			

e. a rigid bar that is free to pivot, or rotate, on a fixed point

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Putting Machines Together Read pp. 92-97

nderstanding Main Ideas swer the following questions in the spaces provided.
What are the two types of machine that turn?
What are the three types of pulleys?
How do you find the mechanical advantage of a wheel and axle?
How are the input and output forces of the parts of a compound machine related?
How do you find the mechanical advantage of a compound machine?
uilding Vocabulary /rite a definition for each of these terms on the lines below.
pulley
wheel and axle