

**Math Skills** (continued)**PROBLEM**

A lever and fulcrum are used to raise a heavy rock, which has a weight of 445 N. If the lever has a mechanical advantage of 0.36, what must the input force on the lever be in order to just begin lifting the rock?

**SOLUTION**

**Step 1:** List the given and unknown values.

**Given:** mechanical advantage = 0.36  
output force = 445 N

**Unknown:** input force = ? N

**Step 2:** Write the mechanical advantage equation, and rearrange it to solve for input force. Because the given information involves only force, only the force terms of the equation is needed.

$$\text{mechanical advantage} = \frac{\text{output force}}{\text{input force}}$$

$$\text{input force} = \text{mechanical advantage} \times \frac{\text{output force}}{\text{mechanical advantage}} = \text{output force}$$

$$\frac{\text{input force}}{\text{mechanical advantage}} = \frac{\text{output force}}{\text{mechanical advantage}}$$

**Step 3:** Insert the known values into the equation, and solve.

$$\text{input force} = \frac{445 \text{ N}}{0.36}$$

$$\text{input force} = 1236 \text{ N}$$

**PRACTICE**

- An axe is driven into a piece of wood a distance of 7.0 cm. If the mechanical advantage of the axe is 0.65, how far is the wood split?  
\_\_\_\_\_
- The mechanical advantage of a wheel and axle is  $6.40 \times 10^{-2}$ . If the wheel's output force is  $2.22 \times 10^2$  N, what is the input force that turns the axle?  
\_\_\_\_\_
- An Archimedes screw is a screw within a closely fitting cone, so that water can be raised when the screw is turned. The screw has a mechanical advantage

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**McGraw-Hill Staff**



**Skills Worksheet Math Skills Holt Science Spectrum Chemical Reaction:**

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<http://www.frostbox.com/data/scholarship/HomePages/The%20Naughty%20List%20English%20Edition.pdf>

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