

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 5.50, 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 = 5.50
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.

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

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

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

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

$$\text{input force} = \frac{445 \text{ N}}{5.50}$$

$$\text{input force} = 80.9 \text{ N}$$

PRACTICE

1. An axe is driven into a piece of wood a distance of 7.0 cm. If the mechanical advantage of the axe is 0.85, how far is the wood split?
2. The mechanical advantage of a wheel and axle is 6.40×10^{-2} . If the wheel's output force is 2.22×10^2 N, what is the input force that turns the axle?
3. 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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Chemical Reaction

Crispin Collins



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