Tom prepared to show off his latest creation for his local science fair. His robot was intelligent, but not mobile. Sammy, his robot, could not walk up steps or move his arms up and down.

Tom used a series of pulleys to help Sammy's arms move. When a single pulley was pulled by Tom, Sammy's arms would be raised. Tom found this to be difficult to use. Tom added weights to the opposite end of the pulleys. When Tom pushed a switch, Sammy would raise his arms. The only problem with this was that his arms would stay up after the switch was pushed.

Tom built Sammy what he called "Power Shoes." When Sammy had his Power Shoes on, a lever would continuously rotate and allow him to climb over surfaces up to one foot in height.

1. Who is Sammy? ____________________________________

2. What are Sammy's limitations? ________________________
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____________________________________________________
____________________________________________________

4. What types of simple machines does Sammy use in order to be mobile? ____________________________