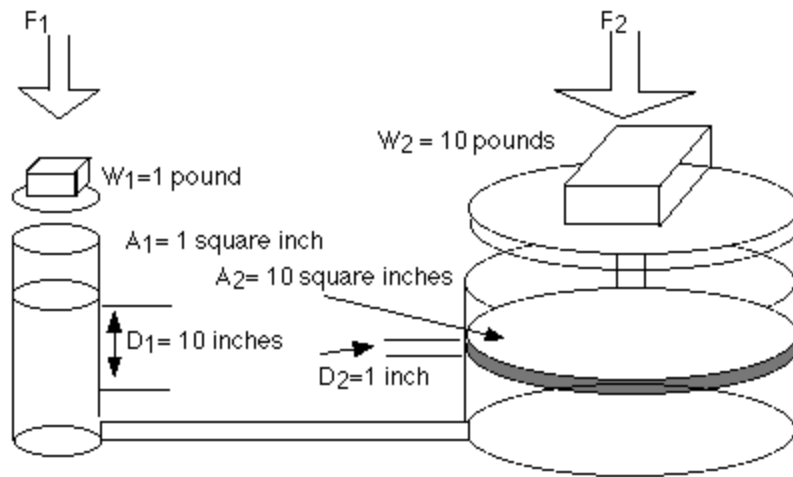


World Of Technology Hydraulics Quiz



1. For the above graphic calculate the pressure for cylinder 1 and cylinder 2. Show all work and label answers.
2. What is the mechanical advantage in this setup? Show all work.
3. If cylinder 1 travels 15 inches, what is the volume of fluid it pushes? Show all work.
4. If cylinder 1 travels 15 inches, what distance will cylinder 2 travel?

5. If 10 lbs of force is pushed on cylinder 1 how much force will be pushed on cylinder 2? Show all work.

6. If the same amount of force is pushed on cylinder 1 as stated in question 5, but it only works with 75% efficiency, what will be the force on cylinder 2? Show all work.

7. If the pressure coming out of cylinder 2 is 100 newtons, what is the pressure going into cylinder 1, assuming 100% efficiency? Show all work.