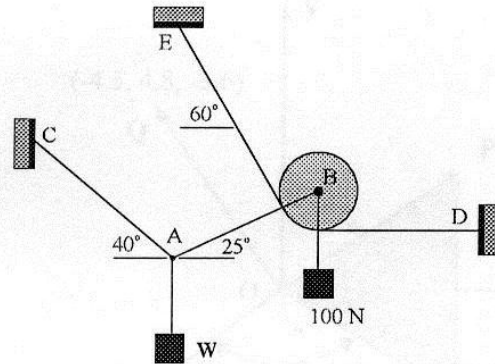


PLEASE INCLUDE THIS SHEET WITH YOUR SUBMISSION

A 100 N weight is attached to a pulley at B . The pulley can roll on the cable which is attached to supports at E and D . Two cables AC and AB tied at A support a weight, W .

The system is in equilibrium in the configuration shown. Determine the magnitude of the weight W .



2. The 460 N man is holding the 360 N weight W in equilibrium, as shown.
- What is the tension in the rope?
 - How much higher can he raise the weight?

