



Practice #1: An old house is being lifted from its foundation and moved by a truck to another location. If the house, which weighs just under 1.50×10^4 N, is lifted 1.52 m from the foundation to the bed of the truck, what is the minimum amount of work done (in J) by the crane?

Practice #2: A car has run out of gas. Fortunately, a gas station is nearby. You must exert a force of 715 N on the car in order to move it. By the time you reach the station, you have done 2.72×10^4 J of work. How far (in m) have you pushed the car?

Practice #3: When building the new wing of East Benefis Hospital, building materials had to be raised to the upper floors by a crane. A quantity of cement was lifted 76.5 m by the crane, which exerted a force on the cement larger than the weight of the cement. If the work done was 1.31×10^3 J, what was the unbalanced force (in N) on the cement?