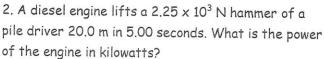
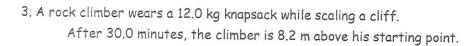
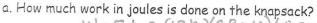
Name_ _ Date _____ Period

Answer the following questions about Power on a separate sheet of paper.

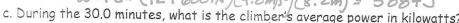
1. A box weighs $1.00 \times 10^3 \, \mathrm{N}$ is lifted a distance of 20 m straight up by a rope and pulley system. The work is done in 10.0 seconds. What is the power developed in watts and in kilowatts?



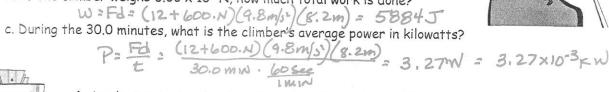




W=Fd = $(12kg)(9.8m/s^2)(8.2m) = 964 J$ b. If the climber weighs $6.00 \times 10^2 N$, how much total work is done?









4. An electric motor develops kilowatts of power as it lifts a loaded elevator 18.0 m in 40.0 seconds. How much force does the motor deliver?

5. A gardener applies a force of 150 N to push a wheelbarrow 60.0 m at a constant speed for 20.0 seconds.

a. What is the gardener's power in watts?



