#32

Physics Homework **Name _____**

Date _____ Period _____

Show PAWS

1. A machine with an efficiency of 75% is used to lift a 2000kg block 10.2m. What amount of energy does the machine use?

2. Find the frequency of a radio wave with a wavelength of 2.5m.

3. The decibel level of a full orchestra is 90db. If the decibel level of a single instrument in the orchestra is 70db, how many times more intense is the level of sound from the orchestra as from the single instrument?

4. A loudspeaker produces an intensity of 5.6×10^{-2}W. What is the decibel level 25m in front of the speaker?

5. A jet engine is producing sound with a decibel level of 120db. Find the intensity of the engine.