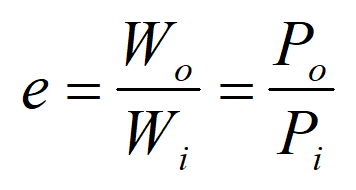
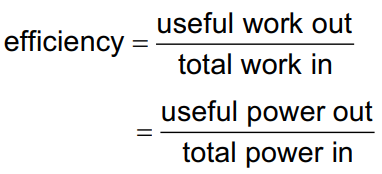
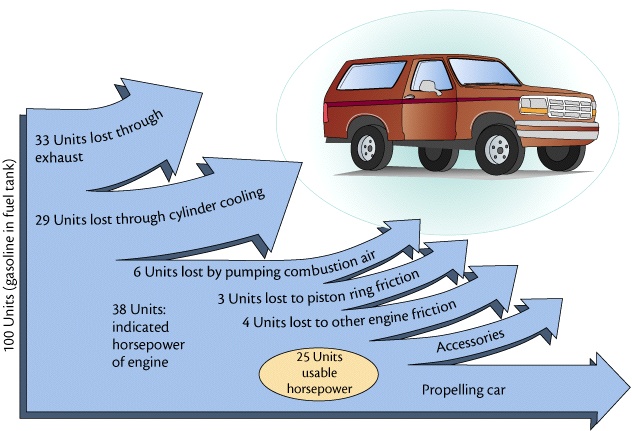
**Noteguide for Efficiency (Videos 6J) Name**

  (2.3.6)

Example: A 1 HP motor consumes 815 W of power. What is its efficiency?



Whiteboards:

|  |  |
| --- | --- |
| 1. A motor consumes 425 J of energy and does 300 J of work. e = ? (0.71 or 71%) | 2. A person is 13% efficient. How much food energy to do 600. J of work? (4600 J) |
| 3. A 60.% efficient heater uses 800. J of energy. What is its heat output? (480 J) | 4. A car is 25% efficient. What energy input does it need to climb a 320 m tall hill if its mass is 1200 kg? Wo = mgh for the car (1.5x107 J) |