

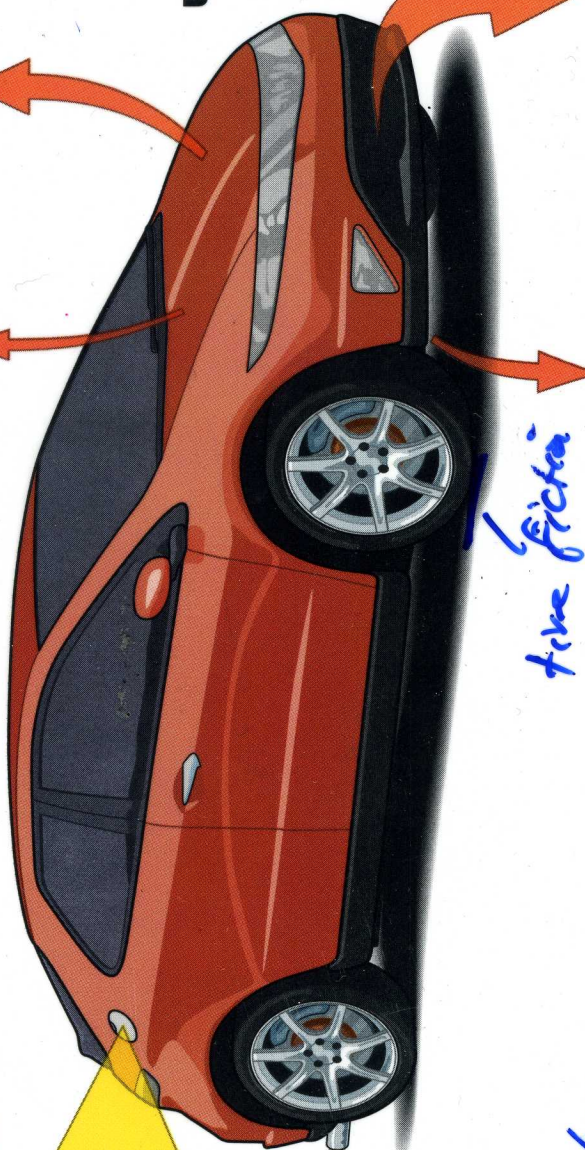
Units of Energy = $\frac{\text{Calories}}{\text{Food}} = \frac{\text{kcal}}{\text{g} \cdot ^\circ\text{C}}$ (Calorimeter)

$1 \text{ cal} = 418 \text{ Joule}$

100 Units gasoline
 potential energy in.

3 Units lost to piston ring friction

6 Units lost by pumping combustion air



33 Units lost through exhaust



4 Units lost to other engine friction

29 Units lost through cylinder cooling

25 Units of usable horsepower

25%