# My Wife Needs a New Car

Efficiency & Carbon Footprint

Human - Automobile

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#### Human - Car Data

Consumption 1500 Calories / day

Displacement 4 miles / day

Gasoline 31,000,000 calories / gallon

Note: 1 Calorie = 1,000 calories

### **Human MPG Calculation**

Note: MPG = Miles Per Gallon

## **MPG** Comparison



City: 27

Highway: 33



City: 80

Highway: ?

## Carbon Footprint

Burning a gallon gasoline yields 20 lbs CO2

One person exhales 20 lbs CO<sub>2</sub> per day

Each person contributes, on a daily basis, the equivalent amount of green house gas as burning one gallon of gasoline.

Note: CO<sub>2</sub> is 27% carbon by weight

20 lbs CO2 contains 5.4 lbs carbon

#### Human CO<sub>2</sub> Emission

CO<sub>2</sub> Emission 26 billion tons /year

Population 7 billion

Per Capita20 lbs / day

#### **Factors Not Considered**

- High viscous speed loss from car
- High temperature heat loss from car
- Large vehicle weight of car
- Maintenance not included

## Results of Comparison

Will my wife get a new car or employ shank's mare?



No contest!