Unit Conversion Homework

Alex Janick

1. (29028 ft)/(3.28 ft) = 8850 meters F = (75)(9.8m/s^2) = 735N W = (735N)(8850J) =6.5 x10^6 J
2. (6.5 x10^6 J)/(4184J) = 1554 calories/210 calories = 7.4 slices of pizza. There cannot be a decimal part of a pizza.
3. 350000000Btu/13000Btu/lb = 2.69 x10^4 lb
4. 300W/1000W = .3kW ($.06)(.3kW) = $.02
5. (300000km/sec)/60sec = 5000km/min 150000000km/(5000km/sec) = 30000 min
6. 10kW/.745kW = 13.41 hp
7. 2000calories/24hr = 83.33 calories/hr
8. CH4 + 2O2 🡪 CO2 + 2H2O Carbon = 12kg Hydrogen = 1kg Oxygen = 16kg 12/16 = .75kg of Carbon in CH4  12/44 = .27272727kg of Carbon in CO2 .75kg/.27272727kg = 2.75kg of CO2